Annual public health report of the Province of Bihar; and Annual vaccination report.

Contributors

Bihar (India). Public Health Department.

Publication/Creation

Patna: Government Printing, [1937]

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OF THE

PROVINCE OF BIHAR

FOR THE YEAR

1937

AND THE

ANNUAL VACCINATION REPORT

FOR THE YEAR

1937-38

BY

Lt Col. S. L. MITRA, D.P.H., I.M.S.,

Director of Public Health, Bihar.



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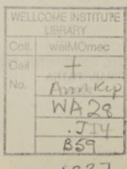
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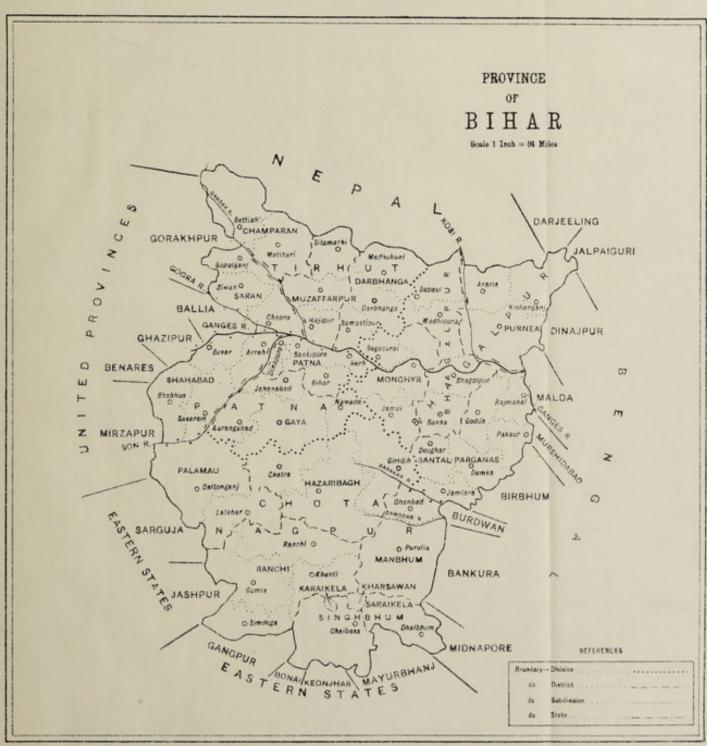


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OF THE

Province of Bihar for the year 1937.

CHAPTER I.

METEOROLOGY, PRICES OF GRAINS, ETC.

1. Rainfall.—The following short account of the meteorological conditions in the province during the year 1937, is taken from the report of the Director-General of Observatories:—

The total rainfall in January was nil in Bihar and Chota Nagpur against the normal rainfall of 0.52" and 0.75" in these areas respectively. The maximum temperature was above normal in Eihar and below normal in Chota Nagpur, whilst the minimum temperature and humidity were below normal throughout the province.

The total rainfall in February was in excess by 1.98" in Bihar and 2.20" in Chota Nagpur. There were fairly widespread rainfall in Chota Nagpur on the 20th and 21st and in Bihar on the 21st and 22nd of the month. Mean maximum temperature was below normal and minimum temperature was above normal and the relative humidity was in excess over the whole province.

The total rainfall in March was in defect by 0.51" in Bihar and 0.83" in Chota Nagpur. Both maximum and minimum temperatures were below a normal and humidity was in defect throughout the province.

The total rainfall in April was in excess by 0.57" in Bihar and 0.21" in Chota Nagpur. The maximum temperature was below normal in Chota Nagpur and above normal in Bihar. Minimum temperature was below normal throughout the province. Relative humidity was in excess in Chota Nagpur and in defect in Bihar.

The total rainfall in May was in large excess in Bihar and in slight defect in Chota Nagpur. Maximum and minimum temperatures were below normal throughout the province. Relative humidity was in defect in Bihar.

The total rainfall in June was in great defect in Bihar and in slight defect in Chota Nagpur. Maximum temperature was above normal throughout the province while the minimum temperature was above normal in Bihar and below normal in Chota Nagpur. The mean relative humidity was in excess in Chota Nagpur and in defect in Bihar.

The total rainfall in July was in defect by 4.02" in Bihar and in excess by 1.71" in Chota Nagpur. Maximum temperature was above normal throughout the province and the minimum temperature was above normal in Bihar and below normal in Chota Nagpur. Mean relative humidity was in excess in Chota Nagpur and in defect in Bihar.

The total rainfall in August was in large excess by 7.17" in Bihar and in defect in Chota Nagpur. As a result of heavy rains floods occurred in Bihar causing serious loss of life and property and many breaches in the railway lines. Maximum temperature was below normal and relative humidity was in excess throughout the province.

The total rainfall in September was in defect by 1.62" in Bihar and in excess by 2.50" in Chota Nagpur. Maximum temperature was below normal in Chota Nagpur and above normal in Bihar. Relative humidity was in excess in Chota Nagpur and in defect in Bihar. Skies were more clouded than usual in Bihar.

The total rainfall in October was in defect by 0.10" in Bihar and by 0.19" in Chota Nagpur. Mean maximum temperature was above normal in Bihar and below normal in Chota nagpur and mean minimum temperature was below normal throughout the province. The mean relative humidity was in excess in Chota Nagpur and in defect in Bihar.

The total rainfall in November was in defect by 0.30" in Bihar and 0.45" in Chota Nagpur. Maximum temperature was above normal and minimum temperature below normal throughout the province. Relative humidity was in excess in Chota Nagpur and in defect in Bihar.

The total rainfall in December was in defect by 0·10" in Bihar and by 0·19" in Chota Nagpur. Maximum temperature was above normal in Bihar and below normal in Chota Nagpur. Minimum temperature was below normal while relative humidity was in defect throughout the province.

The total rainfall during the year in Bihar and Chota Nagpur was 55.82" and 54.87" respectively against 60.44" and 62.21" respectively in the previous year.

2. Price of common grain.—The average price of common rice during the year varied from an average of 10 seers 2 chittaks in the district of Muzaffar-pur to 15½ seers in Santal Parganas. But in the majority of the districts it remained over 12 seers as in the previous year.

The following statement shows the average monthly price of common rice at the headquarters of the districts of the whole province for the year 1937.

Statement showing the monthly average price of common rice (cheapest) in the headquarters markets of the districts of Bihar for the year 1937.

District.		January.	February	March,	April.	May.	June.	July.	August.	September,	October.	a November.	December.
1	ELC C	2	3		E	6	7	8	9	10	11	12	13
	100%	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch.	Sr. Ch
Patna	-111	13 8	12 8	12 8	13 0	13 0	12 12	12 4	12 0	13 2	13 12	14 4	14
Gaya	1100	13 4	13 0	18 4	12 0	12 0	12 0	12 0	12 8	12 8	12 8	12 0	13
Shahabad	***	12 0	10 14	11 0	11 4	11 6	11 2	10 8	11 4	11 8	15 0	15 0	15 (
Saran		11 0	11 8	11 8	11 0	11 0	12 0	12 0	11 0	11 8	12 0	13 12	14
Champaran		12 4	11 4	11 0	11 0	11 0	11 0	10 0	10 0	10 8	10 8	12 8	14
duzaffarpur		10 0	10 0	10 0	10 0	10 0	10 0	10 0	10 0	10 0	10 0	11 0	11
Darbhanga		11 8	11 6	11 12	11 8	11 12	10 12	10 12	10 14	11 0	11 0	11 4	11
donghyr		11 12	11 12	11 8	11 8	11 0	11 0	11 0	10 12	11 0	11 8	12 0	12 1
Bhagalpur		13 4	12 8	12 8	12 8	11 0	19 0	11 4	11 2	12 4	12 4	13 0	13 1
urnea		11 8	11 0	10 0	10 0	12 0	12 0	12 0	11 8	11 0	10 0	12 0	12
antal Pargar	13.5	15 0	14 8	14 0	15 0	14 12	15 0	13 12	14 0	16 0	16 8	18 8	17 (
Iazaribagh		14 0	13 12	14 0	13 0	13 0	12 2	13 4	13 0	14 8	14 8	16 0	*14
lanchi		15 12	14 8	15 2	14 2	14 6	14 10	13 12	14 4	15 0	16 8	17 0	16
alamau		13 8	12 12	13 0	12 0	12 8	13 2	12 14	12 0	13 4	15 0	16 0	15
fanbhum		15 0	14 0	14 0	14 0	15 0	16 0	14 0	14 0	15 0	19 8	18 0	16
inghbhum		15 0	15 0	15 0	14 8	14 0	13 12	13 4	14 8	15 12	(pew) 17 8	17 12	18

CHAPTER II.

VITAL STATISTICS.

1. The population of the province at the census taken in February 1931 was 32,371,434. This figure has been used to calculate the various ratios in the report.

The mid-year population as ascertained by the natural increase method, i.e., by addition of excess of births over deaths from the 1st July 1936 to 30th June 1937, was 34,684,228 as against 34,293,254 of the previous year. The figure for emigration and immigration is not correctly obtained nor is the method for recording births and deaths free from defect. Every year a large number of labourers emigrate from this province to Bengal and Assam, but their exact number is not definitely available. This figure as stated here cannot, therefore, be regarded as quite accurate.

2. The estimated population for the year under review was 34,372,890 as against 34,039,314 of the previous year. This figure has been calculated on the assumption that the population has increased by arithmetical progression. The following two statements record the estimated population in various age groups and also the ratios of births and deaths from the chief diseases calculated on the estimated population of 1937.

Statement A.

Population according to age group of the province of Bihar.

	1			2		3		4				
	Under	l year,	One and un	der 5 years.	5 and und	or 10 years.	10 and und	er 15 years,	15 and under 20 years.			
	Male.	Female,	Male.	Female,	Male.	Female,	Male,	Female,	Male,	Female.		
Census, 1921	428,171	430,762	1,242,286	1,359,885	2,379,710	2,288,361	1,839,157	1,512,999	1,218,397	1,124,128		
Census, 1931	399,475	396,266	1,996,260	2,110,112	2,330,522	2,129,096	2,005,728	1,767,032	1,322,530	1,361,558		
Decennial increase or decrease, 1937.	-38,695	-34,496	+753,974	-750,227	-49,185	-159,265	+166,571	+254,033	+1,041,183	+237,430		
Annual increase or decrease, 1937.	-15,475	-13,800	+452,383	+450,138	-19,676	63,703	+99,942	+152,418	+156,178	+142,458		

6		7		ello: m	2014 100			10				
20 and under	30 years.	30 and under	r 60 years.	40 and under	r 50 years,	80 and under	60 years.	60 years an	i upwards.			
Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female.	Male.	Female,			
2,238,042	2,509,809	2,119,934	2,208,112	1,473,372	1,458,625	818,288	851,054	655,716	876,508			
2,763,352	2,894,276	2,347,958	2,314,501	1,595,753	1,595,753	104,766	913,225	594,542	727,186			
+525,310	+384,467	+222,024	+106,389	+122,381	+122,381	+86,478	+62,171	- 61,174	-149,322			
+315,186	+230,682	+133,215	+63,834	+73,428	+73,428	+51,888	+37,302	-24,468	-60,428			

STATEMENT B.

Ratios of births and deaths from chief diseases calculated on the estimated population of 1937.

		Male.	Female.	Total
Births		 16.4	15-6	32-0
Total deaths		 22-2	20.2	21.2
Cholera		 0.4	0.4	0.4
Small-pox		 0.2	0.2	0.2
Plague		 0.03	0.05	0.04
Fevers		 17.8	16.2	17.0
Dysentery and Diarrhe	oea	 0.1	0.6	0.6
Respiratory disease		 0.1	0.08	0.6

3. Births.—The total number of births in this province during 1937 was 1,100,657 (564,243 males and 536,414 females) as compared with 1,144,008 in 1936. This means a decrease of 43,351 births or 1.3 per thousand population during the year over those recorded in the preceding year. The provincial birth-rate for the year 1937 was 34.0 as compared with 35.3 in 1936. The average birth-rate from the least ten years was 33.7.

The statement below gives figures regarding birth-rates in other provinces of Ir dia.

Province	s.			Bir mille	th-rate per of population, 1937.
Bihar			 		34.00
Orissa			 		34.75
Benga	1		 		34-20
Unite	d Provinces		 de la companya de la companya della companya della companya de la companya della		35-92
Centra	al Provinces		 		40 65
Punja	ь		 		46-49
Bomb	му		 		40-68
Madro	ıs		 		38.72
Burm	a		 19.		34.55
Assan			 	100	31.31
North	-West Fronti	er Province	 		30.74
Sind			 		20.52

4. Birth Registration.—The higher birth-rate 46.3 was recorded in the Gaya district and the lowest birth-rate 27.1 in the district of Purnea. The municipalities of Tikari, Sassaram and Daudnagar registered the highest birth-rates, 1 amely 44.8, 43.5 and 39.5 respectively whilst the municipalities of Jamshedpur, Deoghar and Dumka registered the lowest rates, viz. 3.5, 7.0 and 7.5.

The rural and urban areas of the province recorded 1,072,847 and 27,561 births, the mean birth-rates for these areas being 34.5 and 20.8 per mille population respectively.

The birth-rates recorded in the majority of the districts and towns came to very near the mean figures. The average does not appear to be appreciably affected because variations of both high and low rates have been few and confined only to small populations.

5. Deaths.—The total number of deaths in the province during the year under review was 729,454 (385,755 males and 343,699 famales) as compared with 701,814 in the previous year. Out of these 710,677 deaths were

recorded in the rural areas and 18,575 in the urban areas. The total deaths show an increase of 27,640 deaths or 0.8 per mille of the total population over those recorded in the preceding year. The provincial death rate for 1937 was 22.5 as compared with 21.7 in 1936. The slight increase in the death-rate during the year under review has been essentially due to the occurrence of comparatively larger number of deaths from fevers and cholera. The average death rate for the last decinnium, however, shows a slight decline and was recorded to be 23.0 as against 23.3 of the previous year. The statement below shows comparative death-rates in the other provinces.

Province.						eath rate per of population, 1937.
Bihar					****	22.53
Orissa			4.1 10			28-63
Bengal		Mary William				24.70
United I	rovinces					21.38
Central I	Provinces	negated to	Manual V			32-63
Punjab						32.71
Bombay						27.50
Madras				1 00000	11.	23.99
Burma		196.		delay in		24.75
Assam						22-21
North-W	est Frontie	er Province				21.27
Sind	1.7	NEW ASS				12-49

6. Death Registration.—The highest death-rates were recorded in the districts of Palamau, Purnea and Bhagalpur as 29·2, 28·8 and 27·2 respectively whilst the lowest death-rates were recorded in Santal Parganas and Manbhum districts as 16·7 and 17·5 respectively. Amongst the towns in the province the highest death-rates were recorded in Gaya (36·4), Colgong (24·2) and Raghunathpur (23·6) and the lowest in Sahebganj (2·5), Dumraon (2·7) and Dumka (3·8).

The average death-rate of the rural areas was 22.9 and of the urban areas (24.0). Thus the rural death-rate was higher than that of the urban by 8.9.

The rate of increase in the population, i.e., the excess of the birth-rate over the death-rate in the province was 11.5 as compared with 13.6 in the previous year.

7. Mortality according to age, class and sex.—The mortality rate based on the census figures of 1931 was 180.2 for male infants and 144.6 for female infants under one year of age per mille population as compared with the corresponding figures of 192.2 and 152.6 of the previous year. But when calculated from the actual births recorded during 1937 the mortality rate for infants under one year was found to be 124.4 for males and 106.8 for females per mille with the total infant mortality rate of 115.9 per mille as against the corresponding total of 118.0 in 1936. This shows that the rate was reduced by 2.1 per mille during the year as compared with that of the previous year. With the termination of the first year of life the rate as usual fell to 39.5 for males and 34.4 for females as compared with the corresponding figures of 37.7 and 33.0 registered in the previous year. The mortality amongst males was higher than that amongst females in the ratio of 112 to 100.

There was, as usual, considerable differences in the death-rates amongst the different communities. The death-rate was highest amongst Hindus (23·1) and lowest amongst Budhist (7·6). A death-rate of 20·4 was recorded among the Muslims and 15·6 among the Christians while that of the other classes was 20·4.

8. Verification of the registration of vital occurrences.-Registration of vital occurrences is compulsory in all the municipal areas of the province. The accuracy of 20,263 vital occurrences was investigated and verified by the health officers and the vaccination inspecting staff during the year and out of these 137 omissions were detected. Prosecutions were instituted in 66 cases and of these 62 ended in convictions. The registration of vital occurrences is not compulsory in rural areas. The reporting agency in the rural areas as well as in the municipal areas remains to be the police. The machniery for reporting vital statistics in the rural areas continues to consist of the village chankidars who attend their respective thanas on parade days to report the vital occurrences of their respective villages. The collection of vital statistics through the agency of the illiterate village staff although prevails in almost all over India remains defective, specially with regard to the classification of causes of deaths. The village chaukidars while reporting deaths have also to state cause of deaths based on the diagnosis made by themselves or that by any other lay villager or by some illiterate member of the family of the deceased.

With the appointment of health officers as Registrars of Births and Deaths in some of the bigger municipalities, namely Bhagalpur, Patna City, Ranchi and Patna Administration Committee, the responsibility of collection, tabulation and verification of vital occurrences has been transferred in recent years to the health staff of these local bodies. This measure has brought about a distinct improvement in the registration of vital statistics in these areas and with the appointment of better trained health personnel it should be possible for the other municipalities of the province to undertake this responsibility with efficiency. A partial transfer has also been effected in Gaya, Chapra and Muzaffarpur municipalities where both the municipality and the police report these statistics separately. The figures supplied by the police and those by the municipal health staff are compared and cases of under and over-reporting are verified. The results show that the figures collected by the staff of the municipalities are more accurate. It is expected that as more and more municipalities appoint their health officers, they will realise the importance of accuracy in statistical records and will do all in their power to effect improvement in the existing machinery with a view to assume full responsibility of this task independent of the police.

Verification of Vital Statistics in Rural Areas.—In rural areas 210,874 vital occurrences were verified by the vaccination staff as against 161,087 in 1936. In the rural parts of the country, specially in the districts where suitable health organisation under a district health officer is not maintained verification of vital statistics and their accurate registration become difficult, but in the districts where such officers are employed, they check the figures supplied by the vaccinators and the Civil Surgeons compare the police figures with those furnished by the health officers.

9. Publication of Vital Statistics.—The vital statistics for all municipal towns in the province with a ropulation of over 20 thousand was as usual regularly published during the year. Weekly epidemic reports from all the districts showing attacks and deaths from cholera, small-pox, plague and influenza were published regularly in the Bihar Gazette and also in some of the important newspapers.

By the publication of these statistics the general public is kept informed of the actual state of health of the larger towns and of the prevalence of epidemic diseases in the districts. Publicity of this kind also demonstrates the utility of accurate vital statistics and helps to create an interest in the minds of the people for the actual state of public health.

CHAPTERS III AND IV.

STATE OF PUBLIC HEALTH IN THE PROVINCE AND HISTORY OF THE CHIEF DISEASES—EPIDEMIOLOGY.

1. Comparative incidence of the chief diseases.—The undermentioned statement compares the ratios under the chief heads of mortality in 1937 with the average ratio of the previous ten years:—

		Urb	an.	Rur	al.	Combi	ned.
about the bill of		Ten years' average.	1937.	Ten years' average.	1937.	Ten years' average.	1937.
1		2	3	4	5	6	7
Cholera	102	0.8	0.3	1.5	0.4	1.5	0.4
Small-pox		0.5	0.3	0.5	0.2	0.5	0.2
Plague		0.05	0.04	0.1	0.05	0.1	0.04
Fevers		6.8	6-6	17.3	18-5	16-9	18-1
Dysentery and Diarrhœa		0.5	0.8	0.1	0 09	0.1	0-1
Respiratory diseases		0.5	0.7	0.1	0.08	0.1	0.1
Injuries		0.5	0.5	0.3	0.3	0.3	0.3
All other causes		4.3	4.8	3.3	3.2	3.4	3.2
Total		14-1	14.0	23-4	22.9	23-0	22.5

The death rate has increased from 21.7 in 1936 to 22.5 per mille population in 1937. The increase in the number of deaths was due chiefly to comparatively larger number of deaths from cholera and fevers, the death rates from these two diseases being 0.4 and 18.1 as against 0.2 and 16.9 of the previous year. The highest death-rate 18.1 was recorded from fevers. Deaths from malaria are included under the heading of "Fevers" and as malaria prevailed in epidemic form in several districts of the province during the year under review, it is presumed that the increased death rate from fevers was chiefly due to greater number of deaths from this disease.

The urban areas, except a few small municipal towns, continued to record proportionately less number of deaths from cholera and fevers. This is obviously due to the maintenance of better standard of sanitation in the municipal towns, but the urban rates from the respiratory diseases again exceeded those recorded in the rural areas. The deaths from pulmonary tuberculosis, pnemonia and bronchities following influenza are all reported under the heading "Respiratory diseases". Although no means exist to know the exact number of deaths from each of these diseases, it is presumed that a big proportion of these deaths was caused by pulmonary tuberculosis. The chief reason for higher death-rates from pulmonary tuberculosis in the urban areas of the province may be ascribed to overcrowding, mal-nutrition and lack of fresh air. Public opinion has been greatly roused in recent years against the scourge caused by this disease. Tuberculosis has been added to the list of notifiable diseases under the Municipal Amendment Act of 1935 and steps were taken during the year to resuscitate the provincial

anti-tuberculosis organisation under the auspices of the King George Thanksgiving Anti-tuberculosis Fund.

- 2. Cholera Statistics.—The death-rate from cholera increased from 0.2 per mille in 1936 to 0.4 per mille in 1937. The districts of Bhagalpur and Monghyr recorded the highest death-rate, viz., 1.2 and 1.0, respectively, whilst each of the districts of Patna, Gaya, Muzaffarpur and Santal Parganas registered a death-rate of 0.61 from this disease. Amongst the towns Hajipur (2.0), Colgong (1.9) and Revilganj (1.4) reported highest death-rates.
- 3. Cholera in the Province.—The total number of deaths from cholera in the province was 13,949 in 1937 as compared with 6,070 in 1936 and 57,136 in 1935. The districts of Bhagalpur and Monghyr registered highest number of deaths from this disease during the year, namely 2,676 and 2,293 deaths as against 492 and 27 of the previous year. Of the other districts, Muzaffarpur, Gaya, Santal Parganas and Patna reported, namely 1,871, 1,485, 1,235 and 1,045 respectively, comparatively larger number of deaths from cholera during the year. The disease started in sporadic form in all these districts from March and they remained infected till the end of the year. The maximum intensity was reached in all of them in November, except in the district of Muzaffarpur which registered highest number of deaths in June. A comparative study of deaths from cholera in the province from 1922 to 1937 demonstrates the following interesting epidemiological features:—
- (i) The province is an endemic home of cholera. The disease tends to recur every year in epidemic form in one or the other part of the province in varying intensity.
- (ii) The disease generally occurs late in the summer in the districts of South Bihar and remains present till the advent of the winter months, but it begins early in the summer months in the districts of North Bihar and dies out by the end of monsoon period. This is in all probablity due to certain co-relation that may exist between the outbreak of the disease and the prevailing climatic factors, i.e., rainfall, humidity and temperature.
- (iii) The source of the first occurrence of the disease is sometimes easily traceable when infection is found to be imported from an infected area either from the neighbouring districts or the adjoining provinces but occasionally the sources get shrouded with a mystery, and one begins to consider the importance of carriers.
- (iv) The bad year of cholera generally recurs after every five or six years and the highest intensity of the epidemics in the districts of South Bihar and in those of North Bihar occurs in two different but consecutive years. In the cycle of the epidemicity, the peak years have invariably corresponded with Kumbh mela years, but the intensity of the disease shows a definite lowering during the last decinnium. This is apparently due to better understanding among the masses of the real nature of the disease and timely demand and quicker provision of preventive measures.
- 4. Cholera preventive measures.—Although it is commonly realised that without protected water supplies and efficient conservancy it is difficult to arrange for an effective control of the spread of infection in village areas, a definite progress has been made in recent years in checking the outbreaks of cholera from taking an explosive turn specially in the districts which have employed well trained health personnel under qualified health officers. Ten districts continued to employ health officers with suitable subordinate health staff during the year and there were as usual fewer demands for epidemic doctors to control cholera from these districts. But when the outbreak became widespread and the district staff were found to be inadequate to cope with the situation, temporary epidemic doctors had to be detailed from the department. Nine Government epidemic doctors were detailed on epidemic duty during the year in the cholera affected areas.

Stock of disinfectants such as Bleaching Powder and Permanganate of Potash and also of Choleraphage are kept in reserve at the office of the district boards and the municipalities. In cases where the stock get exhausted and the local bodies are not in a position to replenish them, the Civil Surgeons and the executives of the Local Bodies send requisition for these to the Director of Public Health who supplies these to them. Anti-cholera inoculation has now become a popular preventive measure and people are pitching faith in increasing degree in its efficacy, with the result that a great many persons now come forward of their own accord to offer themselves for inoculation. Government maintain a large stock of cholera vaccine at the Vaccine Depot, Namkum. The Superintendent, Vaccine Depot, is generally asked by telegram to despatch the vaccine immediately it is required anywhere in the province. The number of doses of cholera vaccine issued during the year was 640,000 as against 288,930 doses during the previous year. The use of choleraphage for the prevention and treatment of cholera is dealt with in Chapter XIV.

Small-pox.—The total number of deaths from small-pox during 1937 was 7,485 as compared with 22,863 in 1936. The mortality rate for the year 1937 was 0.2 as against 0.7 of the last year. From a study of mortality rate from small-pox from 1922 to 1937 it appears that the lowest number of death from this disease was recorded in the province in 1922. The number of deaths then gradually increased every year till the maximum was reached in 1926. The figure then declined annually till the lowest was touched in 1929 with another gradual rise and a peak rise in 1933. From 1934 onwards, a gradual lowering in the yearly deaths from this disease was again experienced and 1937 has recorded the lowest number of deaths since the last peak rise. A cyclic rise appears to be well marked in the epidemicity of small-pox in the province. The exact cause of this cyclic rise is not definitely understood, but it is believed that the effect of vaccination wears out with the passage of time usually five to seven years; with the result that greatest accumulation of susceptible individuals occurs during the year that corresponds with the peak years. The highest death rate from small-pox was registered during the year in the districts of Palamau (1.0), Manbhum (0.5) and Gaya (0.4) while the districts of Ranchi, Muzaffarpur and Hazaribagh returned the lowest deathrate, namely 0.03, 0.003 and 0.05 respectively. Amongst the towns Bettiah, Patna City and Chatra reported highest death-rates, viz., 2.03, 1.9 and 1.7 respectively.

Primary vaccination is compulsory under the Bengal Vaccination Act in all the municipal towns of the province and the rural areas of the districts of Patra, Gaya, Bhagalpur, Saran, Champaran, Darbhanga, Purnea, Bhagalpur and Hazaribagh. The provision of the Act was also extended to the district of Shahabad during the year under review. All these districts except Hazaribagh maintain health organisations under district health officers. enforcement of the provisions made under sections 92 to 96 of the Local Self-Government Act, the responsibility of the administration of the Act has been transferred to such local bodies as have taken up the approved health organisation scheme and the health officers of the district boards of Gaya, Shahabad, Saran, Muzaffarpur, Purnea, Darbhanga, Patna, Champaran, Bhagalpur and Manbhum have been appointed Superintendents of Vaccination. The inspection of vaccination is done by the district health staff in these districts and Government vaccination inspecting staff have been withdrawn. The Civil Surgeons function as the Superintendents of Vaccination in places where the local bodies have no health officers and Government exercise control over the administration of vaccination through the Assistant Directors of Public Health who make annual inspection tours and submit special reports on this work. The three special inspectors of veccination that were appointed by Government a few years ago to ensure better supervision of the vaccination work continued to function during the year, one under each of the Assistant Directors of Public Health. Their services were specially utilised to render assistance to the local bodies in the vaccination administration in accordance with the provisions of the Vaccination Act in the compulsory areas. They were also sent to most of the areas where small-pox broke out in epidemic form to induce the people to accept vaccination operations. A great deal still remains

to be done before it can be hoped to make vaccination universally acceptable. It is expected that all the district boards of the province will soon take over direct control, of this very important public health measure and provide facilities for vaccination and re-vaccination of the entire population.

The vaccine lymph manufactured at the Vaccine Depot, Namkum is supplied throughout the province free of cost. The lymph before being issued is throughly tested with regard to its potency and purity. The lymph produced is considered to be of high standard. This is borne out by the high percentage of successes obtained with its use in primary vaccination which has invariably been found to be 98 to 99 per cent. 1,369,749 vaccination operations were performed in the province during the year under report. Out of these 990,780 were cases of primary and 378,969 were those of re-vaccination.

Although vaccination confers sure protection against small-pox infection and about two lakks of persons get vaccinated every year, the province continues to register large number of deaths from this disease and the incidence tends to show sharp rises at times. This is due to the fact that a large number of the children born every year escape even primary vaccination and the need for re-vaccination is not yet fully appreciated by a large number of the general population. It is, therefore, considered that so long not only primary vaccination but also periodical re-vaccination of the whole population is not made compulsory, it will not be possible to ensure complete disappearance of the incidence of this disease.

6. Plague.—There were 1,470 deaths from plague in the province during the year as compared with 1,245 in the previous year. The death-rate remained the same as in the last year. Although incidence of plague has greatly declined during the last decade in the province there are still certain isolated foci in the district of Champaran, Saran, Muzaffarpur, Darbhanga and North Monghyr where plague starts almost every year with the approach of the winter season, reaches its maximum intensity during February and March and declines with the advent of the summer months. The district of Saran with a total of 1,098 deaths recorded the highest death-rate (0.4) followed by Muzaffarpur (0.09) and Champaran (0.02).

In the district of Champaran plague was responsible for 51 deaths during the year and of these 45 deaths occurred in Pettiah town. Infection of plague was imported to this town for the first time in January 1934 and the disease has become endemic since then. The disease prevailed in this town in epidemic form almost throughout the year, except in the months of August and October. Bettiah being an important grain centre of the district, offers a favourable field for a high rat population. Steps have been taken during the last four years to give extensive anti-plague inoculations to the residents of this town. A Government epidemic doctor was detailed on plague duty in Bettiah town and the district board staff carried out anti-plague measure in the areas under the police-stations of Bettiah and Sikarpur.

In the district of Saran the epidemic in January continued from the previous year. The disease subsided in May but broke out again in epidemic form by the third week of September. 105 villages were affected under four police-stations, namely, Gopalganj, Mirganj, Siwan and Mairwan. Over and above the three assistant health officers the district board appointed two temporary epidemic doctors to do epidemic duty. A total of 1,098 deaths were recorded from plague in the district as against 1,884 of the previous year and 32,626 persons received anti-plague inoculations.

In Muzaffarpur district plague as usual was confined to the endemic areas of the Hajipur subdivision and a portion of the Sadar subdivision with a mortality rate of '07 as against 06 of the previous year. Mahua thana where a mortality rate of 0.8 v. as registered was most severely affected. Antiplague inoculations 6,076 in number as against 3.780 of the previous year were performed by the dispensary and the public health dectors of the district board.

In Darbhanga 42 deaths were recorded during the year as against five deaths of the previous year. The deaths mostly occurred in sporadic form in the Sadar and Madhubani thanas.

The incidence of the disease appears to have disappeared in the district of Monghyr. No death occurred from plague in this district during this as well as in the previous year although an endemic focus had existed in Beguserai subdivision where deaths had been occurring every year prior to this period.

7. Dysentery and Diarrhoea.—There were 4,006 deaths from this group of disease as against 3,118 deaths in the preceding year and the mortality rate was 0·1 as against the same in the previous year. The towns which recorded highest death-rates were Purnea (2·2), Patna City (1·9) and Forbesganj (1·7). The highest number of deaths occur from these diseases usually during the monsoon months whilst the lowest is recorded during the driest part of the year. This fact demonstrates that the incidence of these diseases as well as of other bowel diseases are closely associated with the nature of conservancy service and the state of water-supply.

CHAPTER V.

FAIRS AND FESTIVALS.

- 1. A large number of melas are held every year in the different parts of the province to which the attendance of the visitors usually exceeds fifty thousand. Besides these a great many smaller melas are also usually held on the eve of the religious festivals. Most of these melas have only local interest and are usually attended by the inhabitants of the districts in which they are held and those of the adjoining districts. But the three melas, namely, Pitripaksha held at Gaya, Harihar Chatra at Sonepur and Bhadra Purnima at Decghar have more than local interest and usually attract a very large number of visitors from the other provinces of India. Most of these melas had caused in the past extensive outbreaks of cholera epidemic in this province, but with the growth of public health organisations in the districts and provision of efficient conservancy arrangement with protected water-supply specially at the big congregations the dread of quick dissemination of the disease in mela areas has greatly been reduced in recent years.
- 2. The Sonepur Fair which is considered to be the largest cattle fair in the world was held during this year, from the 14th to the 28th November 1937. 276,322 persons visited this mela from the 13th to 23rd November and of them about two lakhs visited the mela area on the bathing day which fell on the 18th November 1937. 35,505 cattle, 3,802 horses, 540 elephants and 32 camels were brought for sale in the mela area. Special sanitary arrangements as in the previous years were made by the Public Health Department in conjunction with the health staff of the district board of Saran in whose jurisdiction the fair is annually held. Three medical officers were deputed by the Public Health Department for mela duty and the mela area was divided, as usual, into three sanitary circles. Each of these circles was placed in charge of a medical officer deputed by the Public Health Department who were assisted by the Health Inspectors and other subordinate staff detailed by the district board. Adequate arrangement for the supply of protected water existed throughout the mela period. About 30,000 gallons of potable water was made available every day through 269 taps in the mela areas. Besides these, steps were also taken to get all the 165 wells disinfected twice by the 7th November and from the 11th November they were treated with choleraphage every alternate day. Usually cholera epidemic subsides in this province before the Sonepur Fair starts, but this year cholera was present in most of the neighbouring districts whence a large influx of visitors are normally drawn during the mela period. This necessitated the adoption of extra precautionary measures. Epidemic doctors with outfits for anti-cholera inoculation were posted to important steamer ghats and the water-supply was also regularly treated with choleraphage at all the important railway stations from Chapra to Sonepur. 37 cases

of cholera occurred in the mela area. All of them were removed for treatment to the temporary cholera bospital and of them 9 died.

The health staff delivered a number of lectures on health and hygiene illustrated with magic lantern slides. Printed leaflets on public health subjects in different vernaculars were widely distributed as in the previous years and illustrated coloured posters were also pasted at prominent places. The Health Officer of the district board of Patna who was deputed to take a batch of volunteers for training in the construction of septic tank latrines to Ushagram in the district of Burdwan, put up two such latrines in the mela areas for demonstration proposes with a view to stimulate interest in the visitors for introducing these latrines in private residences. It was found that this type of latrine could be best adapted for places where sufficient water-supply for flushing of the seats was available and where the effluent could be safely discharged, without contaminating the water of the neighbouring wells. A census taken of the prostitutes camping in the mela area revealed the presence of 327 prostitutes as against 302 of the previous year. In the absence of legislation to abolish the brothels in the mela area, steps were taken to collect history of antecedent incidence of venereal disease amongst them and stress was laid in demonstration lectures on the importance of precautionary measures against such infection.

- 3. The Pitripaksha mela at Gaya commenced from the 20th September and lasted till the 5th October 1937. 70,875 pilgrims visited Gaya during the period as compared with 67,442 in the previous year. 245 lodging houses were licensed during the year as against 192 in the previous year, under the places of the Pilgrimage Act which is enforced in Gaya. Most of the pilgrims were accommodated in the lodging houses and Dharamshalas. Adequate sanitary arrangements were made in the mela areas by the Lodging House Committee assisted by the health staff of the Gaya Municipality. Pipel water supply was made available for 18 hours a day from 4-30 A.M. to 10-30 P.M. throughout the mela period. Cholera cases were present in Gaya town before the mela commenced. The danger of the introduction of the infection among the pilgrims was fully realised and every effort was made to apply intensive precautionary measures. Although well water was rarely used for drinking purposes, all the wells in the lodging houses as well as those on the road sides within the mela area were regularly disinfected. There were 20 attacks and 8 deaths from cholera during the whole mela period. All these cases were removed to the cholera hospital for treatment and of these 10 attacks and 7 deaths occurred among the pilgrims. Immediate steps were taken to check the disease from spreading among the other visitors. 504 persons were inoculated against cholera in the mela areas, but inoculation was restricted only to those persons who offered themselves to get inoculated. Reliance was mainly placed on choleraphage which was extensively used both as a curative and prophylactic agent throughout the mela period. Choleraphage was also used in the treatment of the cases at the hospital supplemented by transfusion of saline only where necessary. Results were very encourging and the disease did not spread in epidemic form.
- 4. The Bhadra Purnima mela held at Deoghar was attended by 4,069 pilgrims. The Places of Pilgrimage Act is also enforced in Deoghar and licenses for 79 lodging houses with a capacity of accommodation for 3,154 pilgrims at a time was issued during the year. The town of Deoghar being considered as a sacred place of pilgrimage about 40,000 pilgrims occupied the lodging houses and the camping ground for varying periods during the year. A health officer for Deoghar municipality was appointed during the year who also looked after the sanitary arrangement of the mela area. There were 63 cases of cholera during the year and of them 42 occurred during the Bhadra Purnima mela. 17 of these cases proved fatal. All the cases except two recorded during the mela period occurred among the pilgrims and were traced to have been infected before their arrival in the mela area. Elaborate precautionary measures organised during the mela period prevented the spread of the disease in epidemic form in the town.

Besides these, a great many other fairs are also held in the province. In the districts where health organisations existed, adequate sanitary arrangements were made on these occasions by the local bodies under the direct supervision of the health officers. The important melas were also attended by the Assistant Director of Public Health who helped the local bodies in organising the sanitary arrangements. Government epidemic doctors were detailed by the Public Health Department to wherever their services were considered necessary.

CHAPTER VI.

URBAN SANITATION.

Thirty-six out of 53 municipalities in the province were inspected by the Assistant Directors of Public Health during the year under review and reports on these inspections were duly submitted to Government. Stress was laid in all the reports on the need for provision of wholesome water supply, efficient removal and disposal of refuse and night-soil, suppression of nuisance, improved housing and better control of food supplies because it is realised that adequate provision of these, forms the basic requirements of a community, if it is to maintain at all a reasonable standard of health. The majority of the municipalities continue to show inability to employ suitable qualified health officers, on grounds of financial stringency, and so long as their financial position does not improve, any prospect for employment of such officers by them appears to remain a remote possibility. The municipalities of Patna, Gays, Ranchi, Bhagalpur, Darohanga and Muzaffarpur, continued to maintain full-time health officers during the year. The Health Officers of the Patua, Gaya and Ranchi Municipalities belong to the provincial public health cadre and are paid by Government while the one employed by the Bhagalpur municipality is paid by its own fund. The rules framed by Government laying conditions for recruitment of health officers by the municipalities were so amended during the year as to provide smaller municipalities having less than fifty thousand population with option to employ health officer with L. P. H. qualification. The amendment enabled the municipality of Deoghar to appoint a health officer during the year with this qualification on smaller pay. It is expected that the other smaller municipalities of the province will also take advantage of this provision and soon appoint such officers.

The health officer employed by the municipality of Darbhanga resigned during the year in order to accept appointment as a health officer under the district board of Manbhum and it is regretted that his place was not filled by another qualified health officer.

The necessity of appointment of suitable qualified health officers in the larger municipalities, such as Darbhanga, Muzaffarpur, Monghyr, Chapra, Arrah, Purulia, Hazaribagh, Jamalpur, Bihar and Siwan has long been felt and had been stressed for number of years in the public health report. The question of maintenance of qualified health officers under the local bodies is now considered so important from the view point of making satisfactory progress in the health administration that time is getting ripe when Government should be justified in acquiring powers if necessary by enactment of suitable legislation, to form sufficient public health services and require the local bodies concerned to maintain them at their own cost or if necessary with grants-in-aid from Government. The Assistant Directors of Public Health also continue to recommend in their successive reports the desirability of appointing health officers for the municipalities. Sanitary Inspectors by reason of their limited training are not considered qualified enough to carry out effective preventive measures during epidemics. This is also borne out by the fact that the municipalities which do not employ health officers make requisitions for Government epidemic doctors much more frequently than those who have health officers.

Compulsory primary vaccination under the Bengal Vaccination Act is enforced in all municipal towns of the province and the Civil Surgeons function as the Superintendents of Vaccination except in the municipalities of Patna, Gaya, Ranchi and Bhagalpur where the responsibility of control of vaccination has been transferred to the Health Officers and these health officers have been appointed as Superintendents of Vaccination under section 268 of the Bihar and Orissa Municipal Act, 1922.

Most of the recommendations made by the Assistant Directors of Public Health involving minor expenditure were as usual given effect to by the municipalities at their own cost but recommendations fregarding the advisability of taking up bigger schemes and major public health projects for the provision of protected water-supply, improved drainage, construction of sanitary markets and opening up of congested areas, etc., could not be undertaken because of the stringency of finances with which the municipalities in general chronically suffer in the province.

Expenditure on sanitation in municipal towns:—

The statement below shows the receipts and expenditure for sanitary purposes during the year 1936-37 as compared with those of the previous year:—

Number	Total re isoluding bala	op:ning				Percentage of expenditure to the total receipts.		
of nunici- palities.	1938-36,	1936-37.	Heads of expenditure.	1935-36,	1936-37.	1935-36.	1935-37	
1	3	3		6	6	7	•	
53	66,67,359	63,43,637	Conservency	10,48,308	10,81,176	15.7	17-0	
			Drainage	3,84,603	4,71,613	5.8	7-4	
			Water-supply	4,72,235	4,62,989	7.1	7.3	
			Vaccination	13,808	14,794	0.2	0-2	
			Epidemics	17,131	19,417	0-2	0.3	
			Markets and Fairs	32,279	40,753	0.2	0.6	
			Other Sanitary Char- ges.	22,511	8,348	0.3	0-1	
			Public Health staff	61,861	62,670	0.9	1:0	
i	1000		Total	20,52,736	21,61,760	30-8	33-9	

[·] Contagious Hospitals

The details of expenditure under this head are dealt with in the report of the Superintending Engineer, Public Health Circle, Bihar.

CHAPTER VII.

RURAL SANITATION.

1. The approved health organisation scheme functioned in ten out of the sixteen districts of the province, viz., Patna, Gaya, Shahabad, Muzaffarpur, Saran, Champaran, Darbhanga, Bhagalpur, Purnea and Manbhum during the year. The primary aim of the organisation is to prevent the occurrence

^{242,535 228,958}

This represents cholera hospitals and leper asylums, etc. An expenditure of Rs. 2,28,958 has been incurred in 1956-37. The expenditure is mainly met from Government grants.

^{3.} Chief sanitary works in municipal towns :-

of the epidemic diseases and difuse knowledge of elementary hygiene and sanitation among the rural masses. A complete health organisation as was originally recommended by Government for adoption by the district board consisted of a fully qualified health officer with headquarters station at the district town, and Assistant Health Officer, preferably with L. P. H. qualification with headquarters at such subdivisional town and a trained health inspector with headquarters at each police station with a suitable number of such other staffs as sanitary jamadars, disinfectors, vaccinators and sweepers. Each of the districts where this organisation scheme has been introduced, maintains a qualified Health Officer but the subordinate health staff vary in accordance with the respective financial positions and the budget allotments of the different boards for expenditure, on health and sanitation. Some of these districts have also assistant health officers of L. M. P. qualification who are posted at the subdivisional headquarters whilst all the districts where the scheme functions have been divided into different circles, consisting mostly of two or three thanas. Each of these circles are put in charge of a trained health inspector. The Health Officers of the districts of Gaya, Muzaffarpur, Saran, Bhagalpur, Darbhanga, Champaran and Shahabad belong to the Public Health Cadre of the province and they draw their salaries from the provincial budget, while the Health Officers of the district boards of Patna, Purnea and Manbhum are the servants of the boards and draw their salaries from the boards' funds. Patna and Muzaffarpur district boards received an annual contribution of Rs. 10,000 from Government for their health organisation schemes while the Manbhum board receives an annual grant of Rs. 6,000 towards the cost of the maintenance of the health officer. Previously the civil surgeons were entirely responsible for the control of vaccination administration as Superintendents of Vaccination and Government employed inspecting staffs (Inspectors and Sub-inspectors) to check the work of the vaccinators. But as the health organisation scheme was introduced in some of the districts it became possible to transfer the responsibility of vaccination administration to the district boards. The Health Officers of these districts have been appointed Superintendents of Vaccination and the Government vaccination staffs have been withdrawn from such districts.

The Bengal Vaccination Act continued to remain enforced in the rural areas of the districts of Patna, Gaya, Muzaffarpur, Champaran, Saran, Darbhaga, Purnea, Bhagalpur and Hazaribagh. Application of the Act was also extended to the rural areas of the Shahabad district during the year under review. Vaccination is not compulsory in the rural areas of the remaining districts.

The problem of rural health deserves special consideration and when it is remembered that as much as 96 per cent of the total population of this province lives in rural areas, the need for such consideration still becomes more imperative. In villages such elementary requirements as safe water supply and satisfactory disposal of night soil remain mostly unprovided and by far the majority of the annual toll of deaths continues to occur from preventable diseases. It is natural, therefore, that organisation should deserve to occupy a very prominent place in the picture of any future rural development scheme for the province. A health organisation scheme with a qualified health officer is considered to be an urgent necessity, for every district. Without a Health Officer in the district, efficient supervision of the work of the subordinate health staff and effective control of epidemics can hardly be possible. The district boards which have not adopted the health organisation scheme, however, maintains at present a certain number of subordinate health staff which is increased temporarily during the time of epidemics. But whenever an epidemic assumes serious proportion and there is demand for bigger staff, their boards usually requisition for Government epidemic dectors. This means delay and the districts which have no health officers are naturally handicapped to organise timely adequate measures to combat epidemics.

· 2. Expenditure on sanitation by district boards :--

The following statement shows the receipt and expenditure of district boards under the principal headings of sanitation :—

Number of	Total r i cluding bal	coel t opening anor.	o navot Insolute	a district	12 Ja 87	Percentage of expenditure to the total receipts.			
district boards.	1935-84.	1936-97.	Heads of expenditure	1935-36.	1936-37.	1985-36,	1936-37.		
1	,	3	-	72	6	6	7		
	Rs.	Re.		-	Re.	Rs.			
16	1,86,75,861	1,93,91,795	Conservancy		2,59,747	2,82,999	1.4	2	
	100	O TAGALO	Drainage		4,189	5,037	0.02	0-03	
	if of Beel	od ballede	Water-supply		1,39,484	1,73,760	0.7	0-	
	1	To the	Vaccination		13,263	16,619	0.07	0.0	
	1 minutes	shull was	Epidemics		92,618	83,800	0.2	0-	
	an dila		Markets and Fairs		21,553	21,328	0.1	0-	
	y maxes	a make	Total		5,30,954	6,83,543	28	3.	

Statement of expenditure on sanitation by district boards and per capita of population district by district.

		The same of	Inc	ome	of financial	year							Ex	pen	dit	nre	Expe	ndi	ture			
District	L.		Income during Balance in hand of the Preceding year.				Income during hand of the Prece-				Expend on ge sasits	er	al	Expend on drai and w supp	ge r-			dí enp	per capital excluding wate -sup- ply and drainage.			
10 1	19.8	2		11	3	4	5			6				The same	7			8	11/2			
Palana		Rs.	n.	p.			Re.	a.	p.	Rs.	8.	p.										
Patna		10,48,213	0	0	2,91,542	13,39,755	45,684	0	0	14,488	0	0		0	0	78	0	0	51			
Gaya		13,01,548	0	0	3,94,227	16,93,775	52,117	0	0	11.428	0	0		0	0	51	0	0	41			
Shahabad	***	9,467	0	0	399	9,966	12,338	0	0	3,434	8	6		0	0	11	0	0	11			
Saran	***	8,58 310	0	0	1,07,586	9,65,896	26,005	0	0	9,462	0	0		0	0	24	0	0	21			
Champaran	-111	10,77,731	10	0	***	10,77,731	15,000	0	6	16,171	2	0	pe	0	0	2	0	0	10			
Muzaffarpur	***	8,86,858	0	0	2,18,432	11,05,290	34,545	0	0	17,121	0	0	13	0	0	31	0	0	21			
Darbhanga	***	12,91,950	0	0	6,29,638	19,21,588	40,437	0.	0	27,242	0	0		0	0	41	0	0	21			
Monghyr	***	10,68,874	0	0	1,16,933	11,85,807	16,542	0	0	21,403	0	0	75	0	0	81	0	0	11			
Bhagalpur		9,81,757	0	0	1,76,976	11,58,783	45,002	0	0	2,914	0	0		0	0	61	0	0	4			
Purnea		10,57,494	0	0	5,28,886	15,86,380	35,588	0	0	36,299	0	0	100	0	0	61	0	0	34			
Santal Parga	nns	9,764	0	0		9,764	5,941	0	0	3,893	0	0	100	0	0		0	0	+			
Hazaribagh		5,62,044	0	0	98,348	6,60,392	€,952	0	0	2,334	0	0	13	0	0	11	0	0	1			
Ranchi	19.0	3,94,206	0	0	63,184	4,57,490	2,379	0	0	5,390	0	0	1	0	0	1	0	0	1			
Palaman	***	3,91,280	0	0	76,384	4,67,664	6,438	0	0	1,759	0	0	1	6	0	12	0	0	+			
Manbham	***	5,65,936	0	0	20,135	7,68,061	16,391	0	0	8,483	0	0	3 3	0	0	21	0	0	18			
Singhbhum		3,39,298	0	0	56,926	3,96,224	225	0	0	633	0	0	10	0	0	+	0	0	1			

It will be seen from the above statement that the expenditure on sanitation by district boards, although some of them are in receipt of Government grants towards the maintenance of the health organisation scheme in their districts, is too little to provide for adequate public health amenities to the people.

CHAPTER VIII.

MALARIA.

Out of a total number of 729,454 deaths registered in the province during the year, the group of diseases included under "Fevers" was responsible for 584,873 deaths or 80.2 per cent of the total deaths as against 549,009 deaths or 78.2 per cent of deaths in the previous year. It is therefore quite apparent that fever undoubtedly remains the principal cause of mortality in the province. Although a large number of deaths from other diseases in which fever is a prominent symptom are included under this group, it is strongly believed that a large proportion of them is caused by malaria.

The severe epidemic of malaria witnessed during 1936 in certain parts of North Bihar particularly in the districts of Muzaffarpur, Darbhanga, Bhagalpur and Purnea occurred again during 1937 with almost equal severity. The endemic areas of Champaran district experienced a recurrence of the epidemic of the previous year whilst certain portion of North Monghyr also suffered from minor outbreak. The district of Manbhum also recorded an increased incidence. The province recorded during 1937 a death rate of 18·1 from fevers as against 16·9 in 1936. The higher incidence of malaria during the year is apparently reflected in the increased fever death rate. The highest rates for the year were recorded in the districts of Purnea (27·0), Palamau (24·0), Bhagalpur (23·1), Darbhanga (20·2), Muzaffarpur (19·7) and Hazaribagh (18·4).

The crude death rate from fever since 1901 for the six districts of North Bihar where malaria epidemics have occurred during the recent years, when graphically represented shows that the rates reached maximum peak during 1918 which coincided with the pandemic of Influenza and the lowest was recorded during 1931 but a definite upward trend has again become noticeable since 1932. This trend still continues and coincides with an increased incidence of malaria in these districts.

Sporadic cases of malaria occur in every district of the province almost throughout the year. A total of 1,302,498 cases of malaria was treated in the hospitals and the dispensaries of the province during the year and of these the highest number of cases (253,310) was treated in the district of Darbhanga whilst the least number (30,131) came for treatment in the district of Patna. So malaria more or less of static character may be stated to be prevalent throughout the province, the intensity depending upon the local topographical conditions and variations in the epidemiological factors of the disease from year to year. The tracts which show special proneness to the prevalence of the disease in epidemic form are (1) a narrow long belt in North Bihar contiguous to Nepal, (2) the endemic areas of Champaran and Purnea, (3) the group of villages on the outskirt of the Chota Nagpur plateau in the neighbourhood of the hills and the river ghats in Gaya district, (4) scattered patches in the districts of Ranchi, Hazaribagh, Palamau, Singhbhum and Manbhum adjacent to the range of the hills in the Chota Nagpur plateau.

Malaria occurred in epidemic form for the first time in Sitamarhi subdivision of Muzaffarpur district in May 1934. In the following winter the disease assumed epidemic proportion in certain parts of Madhubani and Samastipur subdivisions of Darbhanga district. The disease occurred in virulent epidemic form in greater portion of Supaul and Madhepura sub-divisions of the district of Bhagalpur in July 1935. The year 1936 witnessed fulminating epidemics of malaria not only in the districts of Muzaffarpur, Darbhanga and Bhagalpur but also the district of Purnea which in the past was regarded an endemic home of the disease but had experienced certain reduction in the incidence of the disease during the previous two or three years again became the scene of widespread outbreaks during 1936. All the outbreaks appear to be remarkably confined to the spill areas of the Kosi, Kamla and Bagmati rivers which on their way down from the points of their origins at the foot of the Himalayas in the north to the points of discharge in the Ganges in the south traverse the districts of Bhagalpur, Darbhanga and

Muzaffarpur, respectively. All these rivers show special tendency to change their course too frequently. The spill areas that have suffered from recurrent epidemics are presumed to have undergone certain subsidence as a result of the earthquake of January 1934 and in consequence to provide extensive breeding grounds for the malaria carrying mosquitoes. These districts have now come into great prominence because of the outbreaks of malaria epidemics. The Director of Public Health visited the epidemic areas more than once again during the year whilst the Assistant Directors kept constantly touring throughout the affected areas. 21 epidemic doctors of the Public Health Department were detailed for malaria duty whilst 1,981 lbs. of quinine and 50 lbs. of cinchona febrifuge were provided by the Department for free distribution in the affected areas. A brief description of the outbreak in each district where the disease assumed epidemic proportions during the year is given below:—

Muzaffarpur.—The year 1937 started with a continuation of the epidemic that occurred in Majorganj, Rampurhari, Athri, Aurai Baigna and Katra during 1936, but the disease showed signs of abatement in Baigna, Kanti and Rampurhari in January 1937. The treatment centres opened during the previous year in these areas, therefore, continued to function except those in Baigna, Kanti and Rampurhari south. The epidemic again became widespread in Majorganj areas in July and to combat this, three more centres namely one each at Majorganj, Madhopur Malinia and Dumri were opened in August. A large number of sub-centres were also set up throughout the affected areas and arrangement was made for the free distribution of quinine by house to house visits through the health inspectors. During the latter part of the year the disease suddenly flared up in Sharfuddinpur and it appeared in virulent epidemic form in Gharbhara at the end of the year. Treatment centres were opened to meet the needs of these places. Besides 186,926 patients treated in the permanent hospitals and dispensaries of the district 178,563 persons were treated in the temporary centres organised by the Government and the district health staff of the district. The whole of the quinine supply of the district was met by Government and a total of 625 lbs. of quinine was supplied during the year. A sum of Rs. 8,100 was also granted by Government to carry out anti-malarial measures in Majorganj and Rampurhari areas.

Darbhanga.—Malaria occurred in epidemic form during the year more or less in the same areas as in the previous year. Nearly two hundred villages were affected and all of them were again situated in the spill areas of Kamla and Ealan rivers in Madhubani subdivision. Although the epidemic became more widespread during the year, the severity of the disease in individual villages was less marked than in the previous year. Besides, 253,310 patients treated in the permanent hospitals and dispensaries of the district 194,235 persons received treatment during the year, in 32 temporary treatment centres opened in the affected areas with the help of the Government and the district health staff. The total supply of quinine (403 lbs.) for the district was met by Government free of cost. Invalid diets consisting of sago, barley and sugar, etc., were also distributed on a limited scale to the malaria stricken population in the district, out of the funds provided by the provincial Branch of the Indian Red Cross Society.

Bhagalpur.—An outbreak of epidemic of malaria again started in the spill areas of the Kosi river from August 1937. The epidemic became more widespread in Supaul subdivision where 1,441 villages were affected while 694 and 14 villages also suffered from the epidemic in Madhipura and Sadr subdivisions of the district respectively. Out of 51,156 deaths registered from fevers in the district 11,410 deaths were reported to have occurred from malaria. Besides 99,279 persons treated in the permanent hospitals and dispensaries of the district 334,675 persons received treatment for the disease in the temporary treatment centres of which 13 functioned during the year. A total of 738 pounds of quinine and 273.5 pounds of cinchona febrifuge were administered free to the malaria patients during the year in the district

and of these 500 pounds of quinine sulph were supplied free of cost by Government whilst the rest was purchased out of the district board's fund.

Purnea.—The big epidemic which broke out in the latter part of the year 1936, continued up to April 1937. The epidemic was more severe in the northern and the eastern areas of the district than those in the southern and the western sides. Six temporary treatment centres and a number of subcentres functioned in the affected areas throughout the year. Over and above, 196,926 cases treated in the permanent hospitals and dispensaries about one lakh of persons were also treated in the temporary centres. 378 pounds of quinine and 155 pounds of cinchona febrifuge were distributed free to the malaria patients and of these 138 pounds of quinine were supplied by Government.

Champaran.—There are isolated foci in the district where malaria has become more or less endemic and a high incidence is recorded almost throughout the year. These areas lie mostly on either side of the canal under the jurisdiction of Baghaha, Ramnagar and Shikarpore police-stations.

The disease occurred in a mild epidemic form in 447 villages during the cold weather of 1937 in these areas. 21 pounds of quinine and 10 pounds of cinchona febrifuge were administered free to 3,435 patients through the district health staff. Besides these, 94,059 persons received treatment for this disease in the permanent hospitals and dispensaries of the district.

Monghyr.—Incidence of malaria was reported from all the thanas of the district during the year, but its incidence was particularly high in the areas lying north of the Ganges under the jurisdiction of Khagaria, Chowtham and Bakhtiarpur thanas. The disease occurred in a sharp epidemic form at the end of the rains in a number of villages in these areas, but as the district does not maintain health organisation, the details of the epidemic could not be collected.

Manbhum.—Malaria is present in an endemic form in certain parts of the following thanas, viz., Bandwan, Patamda, Barabazar, Chandil, Balrampur, Bagmundi, Topehanchi, Raiganj and Tundi. Outbreaks of mild and localised epidemics were experienced during certain parts of the year in all these areas. A need for starting special treatment centres in the affected areas was not actually felt and the disease was only combated through the permanent dispensaries which were supplied with additional stock of quinine out of the free supply received from Government of India. A total of 65,842 patients were treated for malaria in the permanent hospitals and dispensaries of the district during the year.

2. Eale of quinine.—Sale of quinine treatments was continued at the various post offices in the province. These treatments were as usual supplied to the post offices by the Civil Surgeons who obtained their requirements from the Presidency Jail at Calcutta. Each treatment consisted of twenty tablets of four grains each and each tube containing twenty tablets was sold at five annas and three pies.

332.5 pounds of quinine sulphate in tablet form were sold during the year under review as against 406.9 pounds in the previous year. The largest quantities were taken by the districts of Ranchi, Muzaffarpur, Bhagalpur, Manbhum, Purnea and Darbhanga. The fall in the quantity sold during the year is presumed to be due to the large quantity of quinine that had to be distributed free in the malaria affected areas of the province.

Spleen census.—The Assistant Director of Public Health, Chota Nagpur Circle, carried out spleen census during his vaccination tours in the districts of Ranchi, Santal Parganas, Singhbhum and Hazaribagh. He examined spleen of 9,516 children who came from 1,173 villages and of these 574 children showed enlargement of spleen. This showed a spleenic index of 6.03 for the total number of children examined, but when calculated for the district figures, the index came to 9.16, 2.62, 8.29 and 5.22 for the districts of Ranchi, Santal Parganas, Singhbhum and Hazaribagh, respectively.

CHAPTER IX.

MATERNITY AND CHILD WELFARE.

1. The Bihar and Orissa Maternity and Child Welfare Society which was formed in August 1928 continued to function during the year with Lady Hallett as the President, the Inspector-General of Civil Hospitals as Honorary Secretary and the Accountant-General, Bihar, as Honorary Treasurer. Six centres worked under the auspices of the society in the province namely, three in Patna, and one each at Muzaffarpur, Monghyr and Ranchi. The income of the society amounted to Rs. 12,273 during the year including Government grant of Rs. 11,100 and the expenditure amounted to Rs. 15,780. The excess of the expenditure over the income was met from the opening balance which stood at Rs. 5,516-8-0. The Society as usual made contributions to the various centres which also received financial help in the shape of subsidies from the local bodies concerned, donations raised from the local people and assistance received from the Victoria Memorial Scholarship funds and the provincial branch of the Rod Cross Society. The municipalities of Ranchi, Darbhanga, Purulia, Dhanbad and Patna Administration Committee also continued to maintain a midwifery service for their respective areas. One midwife was employed by each of these municipalities. Informations received from the chairmen of the local bodies and the Civil Surgeons show that 13 maternity and child welfare centres functioned during the year 1937 in the province and of these 11 were located in the urban areas whilst two were situated in the rural areas. During the same period 13 health visitors, 42 trained midwives and 86 trained indigenous dais were employed throughout the province and of these only 13 trained midwives and nine trained dais worked in the rural areas. A total of 80 hospitals having 265 beds for admission of maternity cases functioned in the province during the year under report and of these 12 hospitals having 32 beds for the maternity cases were situated in the rural areas. Sixty-five lady doctors were employed in the province and of these four were employed by Government while 43 and 18 were employed by the various local and non-official bedies, respectively. Seventeen of them are medical graduates. Over and above these, the industrial areas under the Jharia Mines Board of Health and Tata Iron and Steel Company maintained their own maternity and child welfare organisations. The three maternity circles, at Sijua, Kenduadih and Jharia continued to function during the year under the Jharia Mines Board of Health. Each of these circles remained in charge of a qualified health visitor. The Sijua circle maintained three child welfare and maternity centres whilst the Kenduadih and Jharia circles maintained six and one such centre respectively. Besides these, the maternity and child welfare centre in the Dhanbad municipality continued to be worked by a qualified midwife under the supervision of the Chief Medical Officer of the Board. The maternity ward of the Tata Hospital at Jamshedpur remained also open throughout the year and the lady doctor employed there continued to conduct labour cases free at the houses in the local areas. There is a proposal to open two new welfare centres at Jamshedpur.

No means exist at present to ascertain the maternal mortality rate either for the urban or the rural areas, but the infant mortality rate for the province during the year was 131 in the urban and 115·3 in the rural areas, while the death-rate for the children under five years of age 39·5 for the males and 34·4 for the females. No special method was employed during the year to ascertain the infant death-rate. The village chaukidars, as usual, reported the deaths mentioning the cause of the death as stated by the parents and guardians to the thana officers through hathchittas. The thana officers in turn reported these to the Civil Surgeons who tabulated the figures for the whole district and sent a weekly report to the Director of Public Health.

A brief note on the maternity and child welfare organisation in the various districts is given as follows:—

Patna.--There are three child welfare centres within the Patna municipal areas, namely, Lady Stephenson Centre, Lady Wheeler Centre and Lady

Sifton Centre. Each of these centres was in charge of a qualified lady health visitor. The average daily attendances at these centres were 70, 53.4 and 50.4 respectively. The health visitors besides attending to the centres and conducting knitting and sewing classes visited the neighbouring bustee areas also. The Maternity Supervisor visited these centres as honorary doctor and attended the children suffering from common ailments. All the tubercular babies, brought to the centres were given special food and medicines as advised by the Maternity Supervisor. Indigenous dais were also trained in these centres and they were allowed annas four for attending each class held at the centre.

Gaya.—There is no maternity and child welfare centre in Gaya. One day during the week, however, is reserved for attending to the ante-natal cases at the Lady Elgin Zanana Hospital, Gaya, where during 1937, 222 labour cases were conducted and 492 ante-natal cases were attended to. Gaya municipality also appointed four midwives during the year for conducting labour cases at the houses.

Shahabad.—There is no maternity and child welfare organization in the district but the District Board maintained a number of trained dais who were kept attached to the board's hospitals and dispensaries. These dais visited the expectant mothers and conducted the normal labour cases within the radius of five miles.

Bhagalpur.—No maternity and child welfare centre exists in the district. The Bhagalpur municipality maintained one midwife who attended 299 calls and conducted 231 normal delivery cases during the year.

Purnea.—Steps were taken by the Purnea municipality to open a maternity and child welfare centre in the town during the year, and it is expected that it would soon be functioning.

Monghyr.—The Lady Stephenson Child Welfare Centre was kept open throughout the year. The lady health visitor in charge of the centre resigned during the year and attempt is being made to appoint a substitute. This centre moved to its own constructed building which was opened by Lady Sifton in February 1937. The daily average attendance to this centre increased from 31 to 46 during the year.

Muzaffarpur.—A maternity and child welfare centre has been in existence in Muzaffarpur town since 1931 and a lady health visitor is employed. The centre was shifted to its own building during the year. This building is fitted with bathing facilities, tap water-supply and electric installation and has an attached quarters for the health visitor. Four rooms have also been constructed to accommodate the pupil dais while undergoing training. Four dais were trained in this centre during 1937 and 12 pupil dais were on the roll at the end of the year.

Darbhanga.—There is no maternity and child welfare centre in the district but the municipality of Darbhanga maintains a midwife who delivered 109 normal labour cases at the houses and took 9 abnormal cases to the Darbhanga Medical School Hospital. The district board also maintains a midwife to work in the rural areas with a view to train the indigenous dais. She delivered lectures to 265 chamains during the year.

Champaran.—No maternity and child welfare centre exists in this district but a trained midwife is employed by the district board who toured throughout the district and trained 129 indigenous dais in the methods of clean midwifery.

Ranchi.—The maternity and child welfare centre opened in Ranchi town in 1935 continued to function during the year. A lady health visitor was maintained and the daily average attendance at the centre amounted to 50 as against 37 of the previous year. The Ranchi municipality maintained two midwives while the Doranda Notified Area maintained one midwife to provide domicilliary attendance to the labour cases in the town.

Manbhum.—There is no maternity and child welfare centre in the district. A midwife is attached to the Sadr Hospital, Purulia, who attends to delivery cases at the houses in the town.

The Bihar and Orissa Nurses and Midwife Registration Act was passed in 1935 and a Nurses Registration Council was constituted in collaboration with the Bihar Medical Registration Council during the year under review. A set of rules framed under the Act is receiving consideration of the Government and steps have also been taken in some of the municipalities to enforce by-laws framed under the Act for the regulation of the practice of midwifery within the municipal areas. Classes for the training of indigenous dais continued to be held during the year in accordance with the Victoria Memorial Fund syllabus in most of the sadr and subdivisional hospitals, 46 dais were trained during the year as against an average of 47.6 of the previous three years in the various hospitals of the province. Each pupil dai was as usual awarded stipend of Rs. 5 to Rs. 10 a month from the Victoria Memorial and local bodies fund during the training periods and a certificate was issued by the Director of Maternity and Child Welfare Bureau, Delhi, on passing examination held locally under the Victoria Memorial Fund rules on completion of a year's training.

CHAPTER X.

SCHOOL HYGIENE AND MEDICAL EXAMINATION OF SCHOOL CHILDREN.

1. Government maintain a special staff of officers for the medical examination of scholars of the High Schools since 1920. This system was subsequently extended to the Middle English Schools at places where there is also High English School.

There is one School Medical Officer of Assistant Surgeon grade and one Assistant School Medical Officer of sub-assistant surgeon class in each of the four divisions of the province. There is also a Lady School Medical Officer for the girls' schools of the province. These officers visit all the high schools and most of the Middle English Schools in their respective divisions. Besides these some of the medical officers of health also carry out medical examination of the students of the middle schools which are situated at places where there is no high school.

2. Medical Examination of Scholars.—Usually all the new scholars admitted to the schools since the previous visit of the School Medical Officers are thoroughly examined and a complete medical history of each new entrant is recorded on a prescribed form. All scholars found to be suffering from physical defects at a previous inspection are re-examined and a further note on the defects is recorded. At the end of the inspection, parents or guardians of boys suffering from physical defects are informed of the particular defects the boys are suffering from and they are recommended to consult their medical attendants or to take the boy for treatment to the nearest hospital or dispensary. The medical officers of the dispensaries are required to note on the counterfoils of the forms, the treatment the boys have received with results. Attempts have also been made since 1933 to start school clinics attached to each of the divisional hospitals which the School Medical Officers have been asked to attend during their stay at the headquarters.

The following statement shows the number of children examined, number recommended for treatment and the number found on re-examination to have been benefited from the treatment during 193i.

Divisions.			No. of children exam,ned.	No. of children recommended for treatment.	No, of children recommended for treatment found on re-examina- tion to have actually received treatment.	No. of children found to have been benefited from treatment.	
Patna		1	3,046	1,275	1,275	1,006	
Tirhut			2,891	1,051	1,051	287	
Bhagalpur			3,081	1,491	798	411	
Chota Nagpur			2,411	1,141	900	688	

From the statement noted above it would appear that out of 11,430 boys examined during the year, 4,958 or 43.4 per cent suffered from some kind of ailments. The number of children suffering from various conditions is noted as below:—

					No. of children found suffer- ing from—	
1.	Poor nutrition				1,905	38-4
2.	Errors of refraction				767	. 15.4
3.	Eye disease such as Trachoma and Corneal Opacity.	a, Conj	unctivitis,	Blephritis	164	3.2
4.	Pyrrhea and carries teeth				613	12.3
5.	Enlarged tonsils		***		1,310	26.4
6.	Adenoids				185	3.7
7.	Enlarged glands in the neck				365	7.3
8.	Functional heart troubles				112	2.2

Over and above these 22 children suffered from the organic tensions of the heart, 4 from Kala-Azar, 3 from Leprosy and 2 from Pulmonary Tuberculosis, whilst 120 showed enlargement of spleen and 115 were found to be unvaccinated. During the same period the various health officers employed by the district boards examined 15,574 children and of them 2,690 were found to be suffering from different diseases. The Lady School Medical Officer examined 947 girls out of whom 655 or 69·16 per cent were found to be defective or diseased. Majority of them were found as usual to be suffering from poor nutrition, carries teeth, enlarged tonsils and errors of refraction. Six girls were detected to be suffering from pulmonary tuberculosis.

Lectures in Hygiene.—The School Medical Officers also delivered lectures on hygiene, sanitation and epidemic diseases common in India to the students of the X and XI classes of the high schools. 1,579 lectures were delivered during the year and of these 247 lectures were illustrated with magic lantern slides. Attendance at ten such lectures is compulsory for every boy before he is allowed to sit for the Matriculation examination, but as hygiene is not included within the subject for the Matriculation examination, the lectures do not receive quite the attention they deserve. A good deal of useful information about public health subjects is however imparted through these lectures and they are expected to awaken an interest in the minds of the boys for healthy habits and prevention of diseases. During the summer vacation, these officers devoted themselves as in previous years to special propaganda work by arranging lectures and demonstrations for the village Gurus, Maulavis and sub-inspectors of schools in different selected centres.

The school and hostel buildings are regularly inspected by the School Medical Officers during the visit to each school. 241 such school premises were inspected during the year. These inspections have definitely helped in recent years in effecting improvement in the standard of general sanitation of these premises. Provision for sanitary conveniences has much improved and a satisfactory arrangement now exists in most of these schools for drinking water supply.

The School Medical Officers during their inspection of each school also look into the arrangements made for the physical exercises, games and suitable sitting accommodations in the class rooms and by their constant advice they try to impress upon the headmasters, guardians and parents that in their zeal to impart mental education, the physical development of the child should not be neglected.

The scheme for providing midday school lunch based on a fee of annas eight per school child per month introduced in Purulia Zilla school in 1934

has now been taken up by quite a number of the high schools in the province. The system is reported to be working very satisfactorily.

CHAPTER XI.

HEALTH PROPAGANDA.

A Public Health Bureau on a modest scale is attached to the office of the Director of Public Health. The aim of this Bureau has been to awaken public health conscience in the masses, to focus attention on public health matters and to carry out health education of the general public by persistent presentation of simple sanitary principles by such methods as lectures, leaflets, posters, magic lantern demonstrations and press publications.

The Officer in charge of the Public Health Bureau carried out propaganda work as usual during the year. A large number of pamphlets and leaflets were issued from time to time to the local bodies for distribution among the visitors at the different exhibitions organised in connection with fairs and festivals in the province and many popular articles on public health subjects were contributed to the local press.

Lectures illustrated with magic lantern slides and demonstration on public health subjects were given to the cadets of the Police Training College at Hazaribagh as in the previous years. Hygiene lectures and magic lantern demonstrations were also given by the Officer in charge, Public Health Bureau at a special course organised by the Co-operative Department for the training of the rural walfare workers at Pusa.

The Assistant Directors of Public Health gave short lectures on sanitation and hygiene during their vaccination inspection tours in rural areas. 315 such discourses were held during the year. They are also provided with a magic lantern and complete sets of slides on all important topics of health.

2. Red Cross Society.—The Red Cross Health Museum located at the Patna Museum was open to visitors throughout the year 1937. There was no addition to the models, but steps were taken during the year to replace the various illustrated and coloured posters that had become time-worn and tattered, by new ones. The Health Museum continued to attract a large number of visitors from all parts of the province. 143,082 persons as against 132,781 in the previous year visited the museum in 1937. The Officer in charge of the Public Health Bureau, as usual attended the museum on all important occasions throughout the year and arrangement was also made to distribute leaflets on public health subjects in English and Vernaculars among the visitors.

The anti-tuberculosis sub-committee formed under the auspices of the Society continued to direct campaigns against the spread of tuberculosis in the province. The Organising Secretary, King George Thanks-giving Anti-tuberculosis Fund, toured in Ranchi, Itki and Patna in July and a combined provincial anti-tuberculosis and leprosy officer was employed from October 1937. Steps were taken to allocate Rs. 10,000 to each of the 16 districts of the province out of the funds raised for King George V Memorial Fund to finance the construction of the approved type of building for the establishment of the tuberculosis clinic at each of the district headquarters towns and branch association of the King George V Memorial Anti-tuberculosis Fund in twelve out of the sixteen districts of the province. The recurrent costs of the district clinics are to be met partly from contributions promised by local bodies and partly from funds locally raised and from Government contributions. Copies of the pamphlets entitled Pulmonary Tuberculosis and Pregnancy in India and of British Journal of Tuberculosis were distributed among the officers of the Public Health Department. Two thousand copies of the Urdu translation of the pamphlets entitled "Tuberculosis Problem in Bihar and Orissa" were also printed and distributed chiefly among the Urdu knowing people of the province through the local bodies and middle schools:

CHAPTER XII.

PUBLIC HEALTH ADMINISTRATION.

1. The statement below shows the receipts and expenditure under the head "39—Public Health (Medical)" for the years 1935-36 and 1936-37.

Head.	Receipt.		Head of expenditure.	193	5-36.	1926-87.	
	1935-3 6.	1936-37.	To selective form	Budget provision,	Expenditure.	Budget provision.	Expenditure
1	1	3	Solvat Paris	6	4	7	
SERVICE LAND	Rs.	Ke.	Marin leading	Rs.	Rs.	Rs.	Re.
Sale-proceeds of sera	38,384	45,452	Public Health Establishment.	1,64,434	1,68,253	1,70,864	1,74,916
and vac-	n questina	har of the	Medical examination of scholars and teaching of hygiene in high schools.	43,000	38,261	39,778	35,707
Bud Sald	Legisla	The little	Bubonic plague	6,000	9,383	7,000	6,615
			Malaria	10,600	6,429	9,000	24,061
			Other Epidemic	1,99,463	1,16,737	1,38,638	1,07,017
S. STRIPPIN	FILL S	02939	Publicity campaign	1,862	2,094	1,840	1,719
			Public Health Laboratories.	22,097	18,872	18,129	15,218
10-03		*,100	Total	3,77,396	3,60,029	3,85,249	3,65,253

All requisitions of the Director of Public Health were met by the Government and funds were made available in most cases.

2. The three Assistant Directors of Public Health, one for South Bihar Circle, with headquarters at Patna, one for North Bihar Circle, with headquarters at Muzaffarpur, and one for Chota Nagpur Circle, with his headquarters at Namkum in the Ranchi district, continued to function as in previous years.

The Assistant Directors of Public Health are employed to investigate into the epidemics, suggest measures of control and to see that the actions are adequate to combat the epidemics. They also supervise the prophylactic measures such as vaccination, cholera and plague inoculations. They inspect and report on all nuisances occuring in their areas. A systematic inspection of all local bodies, fairs and melas and high schools are included in their legitimate duties. They also carry out propaganda work by lectures and magic lantern demonstrations. Regular inspection of mines and factories in their respective circles have also been added to the routine duties of the Assistant Directors of Public Health. The supervision and advice rendered by these officers have done much in recent years to assist the local bodies in effecting improvement in sanitation and health of their areas.

There are four School Medical Officers and four Assistant School Medical Officers for the four divisions of the province. There is also a Lady School Medical Officer for the girls' schools. In addition to her own duties she is also employed as Medical Inspectress of Factories in accordance with the recommendation of the Royal Commission on Labour to examine the health of the female employees of factories in Patna district.

Epidemic doctors of sub-assistant surgeon grade are employed temporarily by Government and they are detailed to help local bodies in combating epidemics in the province. Over and above these one hundred reserve of vaccinators are provided for duties in the districts, who in addition to vaccination work are also trained to carry out disinfection during epidemics.

A medical officer of health is in charge of the Public Health Bureau which is attached to the office of the Director of Public Health. He contributes popular articles to the press on public health subjects and prepares and distributes posters, pamphlets and leaflets to the local bodies. He delivers lectures on hygiene to the police cadets at the Police Training College, Hazaribagh, and also at melas and fairs with the aid of magic lantern slides.

Seven medical officers of the Government Public Health cadre have been lent to the district boards of Muzaffarpur, Saran, Champaran, Gaya, Bhagalpur, Shahabad and Darbhanga to work as health officers of the district boards.

Three medical officers of the cadre have also been lent to the municipalities of Patna, Gaya and Ranchi to work as health officers.

A medical officer was also employed as Chemical Analyst at the Public Health Laboratory where water and articles of food are analysed. The services of this officer were transferred under the Bengal Government in September 1935 and since then his assistant who is a non-medical man was temporarily allowed to work in his place. A permanent incumbent to this post who is a graduate in science as well as in medicine and also holds diploma in public health was appointed in April 1937. A medical officer of the cadre has also been appointed as Officer in charge of the Bacteriophage Laboratory and a medical graduate has been temporarily appointed as his assistant.

A medical officer of the cadre also works as Superintendent of Vaccine Depot at Namkum. Vaccine lymph is manufactured and distributed throughout the province from this depot.

CHAPTER XIII.

Annual Vaccination Report is submitted as an annexure to this report.

CHAPTER XIV.

OTHER PUBLIC HEALTH SERVICES. '

1. Jharia Mines Board of Health.—The Jharia Mines Board of Health controls the sanitation of Jharia and the neighbouring areas which extend over an area of 787 square miles and covers the whole of the Dhanbad Subdivision with the exception of the Dhanbad municipality. According to the census of 1931, the population of this area is 504,376 and the estimated population for 1937 excluding that of the municipality of Dhanbad is 537,892 as against 531,401 of 1936.

The total number of births during the year was 14,791 giving a birth rate of 27.57 as against 25.93 of the previous year while the total number of deaths was 8,320, recording a death rate of 15.50 as against 16.10 of the preceding year. The death rate was reduced by 0.6. This is due to the fact that there was no epidemic in the mining settlement during the year. The infant mortality rate was reported to be 92 as compared with 102 in the previous year.

The total number of deaths from cholera, small-pox, fevers and respiratory diseases was 14, 6, 114 and 279, respectively, as against 37, 322, 595, and 428 of the preceding year, 33,991 cases of malaria and 267 cases of venereal disease were reported among the coolies and labourers and a large proportion of the fever deaths is presumed to have occurred as usual from malaria. The preventive measures against cholera and small-pox were taken by the health staff of the mining board, 2,900 anti-cholera inoculations and 22,329 vaccination operations were performed during the year.

Drainage.—The new drainage scheme which was completed in 1935 was maintained in full functioning order during the year and steps were taken to construct road side drains in Poddar Kulhi areas.

Water-supply.—In the course of the year, 7 more collieries were connected to the Jharia Water Board mains, bringing thus the total number of the connected collieries to 192. It is considered that the collieries not yet linked up with Jharia Water Board supply constitute a source of danger to the neighbouring ones. Notices were, therefore, served on five collieries by the board requiring them to link up with the Jharia Water Board mains. The problem of adequate supply of pure water to the various outstill liquor shops still awaits solution. No advance was made in this direction during the year because the term and conditions of supply proposed by the Deputy Commissioner of Manbhum were not acceptable to the Jharia Water Board on grounds of anticipated loss of revenue. The board reserved one tank for drinking water-supply at Katras throughout the year. Four tanks were also reserved for this purpose in the colliery areas during the cholera season.

Sanitation.—Two rubbish lorries for carrying the refuse to the dumping ground were maintained throughout the year in Jharia town and steps were taken to replace the existing old lorries by new ones. Refuse carts were also maintained for the narrow lanes where the lorries find difficult to ply. All the 120 public latrines provided by the board were maintained in satisfactory state of repairs throughout the year.

Housing.—The five years housing programme introduced last year continued to make satisfactory progress during the year under report. Licenses for 29,016 dwelling houses were issued during the year and of these, 24,996 licenses were issued for permanent structures.

Maternity and Child Welfare.—The work in connection with child welfare scheme was continued as in previous year. The whole area is divided into three circles, namely Sijua, Kenduadih and Jharia. Sijua circle has three centres while Kenduadih has six centres and Jharia circle has one centre. Three qualified health visitors were in charge of these circles. They regularly visited the centres, supervised ante-natal and post-natal conditions and conducted the practical training of the indigenous dais. Eleven dais were granted certificates during the year on the result of the examination held at the end of the training course. Most of the normal labour cases were attended by the dais who had received training in previous years. These dais have all been supplied with fully equipped boxes containing outfit required for conducting normal labour cases and are given annas four as a reward from the board's fund for conducting each labour case under the supervision of health visitors. Soap, milk and stock mixtures were also distributed to mothers and children at all centres throughout the year.

Food adulteration.—889 samples were analysed at the board's laboratory and 173 of these were found to be adulterated. 161 prosecutions were instituted and of these convictions were obtained in 127 cases.

Leprosy.—Four outdoor leprosy clinics namely one each at Pandra, Jharia, Tetulmari and Dhanbad were maintained throughout the year. The clinics were as usual twice weekly. 815 new patients attended the clinics and altogether 28,711 treatments were given at these centres.

2. Public Health Laboratory.—During the year 2,905 samples were chemically and bacteriologically examined as compared with 3,035 samples in the preceding year and of these 18 were received from private individuals or firms for analysis on payment of fees.

Water.—One thousand two hundred and twenty-eight samples of water were examined bacteriologically and of these 474 samples were also examined chemically. Samples drawn from various sources are shown as follows:—

Waterworks	 	 	 863
Jails	 	 	 153
Other sources	 	 	 76

Food-stuffs.—The total number of samples examined was 1,645 as opposed to 1,825 of the previous year. The samples were obtained from 19 districts of Bihar and Orissa. No sample was received from the district of Palamau and Angul.

Ghee.—Six hundred ninety-six samples were examined and of these 368 or 52.87 per cent were found to be below the standard or adulterated as opposed to 45.14 per cent of the previous year. 167 samples were found to be of doubtful purity.

Mustard oil.—493 samples of mustard oil were examined out of which 64 or 12.98 per cent were found adulterated or below the standard as opposed to 40.30 per cent of the previous year. Five samples were found to be of doubtful purity.

Sweets.--127 samples of sweetmeats (Methai, Puri and Kachauri, etc.) were examined with a view to find if they were made of pure ghee or oil; and of these 88 samples or 69.29 per cent were found to have been made of ghee or oil which was below the standard or adulterated as opposed to 49.61 per cent of the previous year.

Milk.—35 samples of milk were examined out of which 23 or 65.15 per cent were found to be adulterated.

Atta.—124 samples of wheat flour were examined and of these only one or 0.08 per cent was found to be adulterated.

Miscellaneous.—17 samples of groundnut oil were analysed of which 16 were found to be genuine and one non-genuine. Out of two samples of butter analysed, one was found to be below the standard while out of nine samples of linseed oil analysed two were found to be genuine, four adulterated and three of doubtful purity. Three samples of sago, three samples of suji, one sample of kachra oil and one sample of honey was also examined and all of these were found to be satisfactory. Six samples of disinfectants fluids were examined with a view to find their Radial Walker coefficient and two dead rats sent from Champaran were examined to see if they contained plague bacilli.

Analysis of excisable articles.—The laboratory for Excise work started on a temporary basis in December 1934 continued to function throughout the year. Four hundred and ninety samples of excisable articles were analysed and 304 instruments such as thermometers, hydrometers and saccharometers were standardised during the year in the laboratory. A sum of Rs. 2,528 was charged as fees for the excisable articles analysed for the different distilleries of the province.

3. Bacteriophage.—The Bacteriophage Laboratory was mainly engaged in the production of choleraphage on a large scale as in the previous year. 124,090 phials of choleraphage of 50 c.c. each were prepared and 121,921 phials distributed during the year on requisitions received through the Director of Public Health to various towns and districts of the province. Choleraphage was also prepared in ampouls of which 500 were issued during the year. Choleraphage was supplied free to all the local bodies in the province and a sum of Rs. 12,050 was contributed by them towards the cost of its production. It was also sold to private individuals and to Orissa Government worth Rs. 4,427. Besides the production of choleraphage, the basic research on bacteriophage was also continued. In pursuance of the recommendation made by the Advisory Committee in its meeting held at Central Research Institute, Kasauli, to adopt a uniform method for serological examination of cholera, vibrio dried 'O' antigen and "Inaba", were obtained from the Director of Central Research Institute and special anti-sera were produced for the diagnosis and isolation of different strains of the vibrios. The virulence of the different choleraphage was first increased and then they were naturalised by passing through cholera patients. Seeds for inoculations were obtained from the naturalised types and the brew of the phage suspension thus obtained was found to be highly rich (Nx 10 corpuscles per c.c.). Experiments by passing brew containing suspension of phage through Pasteur Chamberland Candles of varying porosity showed that L2 and L3 candles yielded highest quantity of phage in sterile filtrate. Experiments carried out on storage of these phage also showed that it retained its maximum potency when kept under cold condition inside a frigidaire up to one and half years, but when kept in the open under room temperature its potency deteriorated from 1.3×1010 to 2×1010 phage corpuscles per c.c. in nine months. This phage was considered to be too weak to have any therapeutic value. The theory was recently advanced by Kendal of Chicago that phage could be isolated from autoclaved sewage. Experiments carried on the lines suggested by Kandall failed to demonstrate presence of any phage in autoclaved sample of sewage. Phage was found to get killed at a temperature of 70° in 10 to 15 minutes. It therefore could not keep alive in the autoclaved sample of sewage at a temperature of 120° for half an hour.

Dysentery phage.—A large number of cases simulating signs and symptoms of cholera at the beginning stage of the attack occurred during the year in Mokama thana of the Patna district. These cases resisted choleraphage and most of them after a few days from the attack passed mucus and blood. Some of the samples of stools obtained from them when examined in the dacteriophage Laboratory showed presence of dysentery bacilli of Shiga and Flexner types. Dysentery phage prepared from these strains when sent out for use in these areas controlled the incidence of the disease in a short time. One hundred ampoules of dysentery phage were issued from the laboratory for use in the province during the year, and steps were also taken to mix dysentery phage active against Shiga and Flexner strains in the proportion of 1:16. It was also found that dysentery phage when mixed in this proportion made it active against bacillary dysentery without lowering its potency against cholera.

Typhoid phage.—A limited number of typhoid phage prepared from the stools of the typhoid cases in Patna were issued by the laboratory and tried by some of the local physicians. The medical officer in charge of the Gardanibagh dispensary used typhoid phage prepared at the laboratory on 25 of his cases and of these only one case died. Early use of typhoid phage prevented occurrence of complications. Results appeared to be encouraging but further trials are obviously indicated before any opinion can be expressed on its definite efficacy.

Field Work on Choleraphage .- The use of choleraphage was introduced in this province 8 years ago. The results of its use both as a curative agent as well as a prophylactic agent appeared to be highly encouraging and since then its use has been extended to the province in an increasing degree. It is now definitely found that its use as a curative agent gives the best results even in the rural areas when used in early stages of the attack, but where dehydration has taken place and collapse has set in, its use needs supplementing with transfusion of saline. As a prophylactic agent it invariably cuts short the epidemics, provided immediate steps are taken to phage the total population exposed to the infection. Choleraphage was extensively used during the year in the whole of the province, but on account of limited number of staff, it could not be possible to compile full statistical details of the results obtained from its use in the different districts. Water supply of the Sonpur mela areas and Gaya station areas were daily phaged during the Sonepur and Pitripaksha melas. The infection of cholera was present in both places during the mela periods but the incidence of the disease did not assume high proportions. Very few anti-cholera inoculations were performed in either of these melas. Cholera occurred in epidemic form during winter months of 1937 in Patna town. Choleraphage was put in the proportion of 50 cc. for every 1,000 gallons of water in the reservoir tanks thrice daily on every alternate day. Samples of water were collected next morning from the different taps in sterile phials and were tested for the presence of choleraphage. Every tiny loop of this water when examined showed presence of choleraphage. In November 1937 reports were received that the use of choleraphage did not give satisfactory results in certain areas of Bhagalpur where cholera had broken out in epidemic form. Five samples of stools from cholera cases were obtained from Bhagalpur hospital. The culture was found to be positive of cholera vibrio, but it proved to be phage "A" resistant. Immediate steps were then taken to modify the phage "A" to adapt to the new strains of the vibrio contained in the Bhagalpur samples, and when the modified phage was sent to that area cholera stopped almost at once.

4. Nutrition Research .- A medical officer of health of the public health cadre was deputed to undergo a special course of training in nutrition at the Nutrition Research Institute, Conoor, for a period of three months in the menth of April 1937. This course was arranged by the Government of India under the auspices of the Indian Research Fund Association and comprised of training in animal feeding experiments, supplementary dietetics to the undernourished children, diet survey and assessment of nutrition of growing children. On return from training this officer was appointed nutrition officer for the province on a temporary basis and was placed on special duty to collect available data on dietary and state of nutrition of the scholars residing in the different hostels at Patna. Diet survey carried out in Patna, Science and B. N. College hostels showed that the average cost of board per student per month varied from Rs. 9 to Rs. 12 but the average intake of the diet when reduced into proximate principles of food, i.e., protein, fat, carbohydrate, mineral salts and vitamins lacked in adequate supply of protective food. It is expected that based on the data collected during the survey, the department will be soon in a position to issue concrete suggestions for well balanced diet for the college hostel boarders without increasing the monthly expenditure. The nutrition officer also delivered lectures on elementary principles of dietetics in these hostels. Chemical assessment of the food value of forty articles of food mostly cereal, grains and vegetables purchased locally in Patna was also made by carrying out analysis at the Public Health Laboratory.

CHAPTER XV.

GENERAL REMARKS.

Epidemic Dropsy.—Beri-Beri or epidemic dropsy did not occur in epidemic form in any of the districts of Bihar in 1937, but sporadic cases were reported from all the districts. A total of 828 cases were treated in the hospitals and dispensaries and of these six cases ended in deaths. The highest number of cases were reported from Manbhum (121), Patna (101), Bhagalpur (99) and Monghyr (83) whilst the lowest number of cases occurred in Palamau (2), Manchi (6), Purnea (13) and Gaya (23).

- 2. Incidence of cerebro-spinal fever.—Three hundred and sixty-three cases of cerebro-spinal fever were treated in the hospitals and dispensaries during the year as compared with 17 of the previous year and of these, 14 died. The highest number of cases occurred in the district of Palamau (70), Shahabad (57), Patna (55) and Manbhum (47), whilst the lowest number of cases were reported from the districts of Saran (2), Singhbhum (5), Ranchi (5) and Hazaribagh (7). As compared with other months the incidence of the disease was higher in the months of May and December. Five deaths from cerebro-spinal fever also occurred in Dhamonain colliery area in the Asansol mining settlement among the labourers imported from this province into this settlement. All these cases occurred in the month of March. Three of these belonged to the district of Monghyr whilst the two came from Bhagalpur district.
- 3. Leprosy relief.—The Bihar and Orissa Leprosy Relief Committee was constituted by the Government of Bihar and Orissa in August 1926 as the provincial branch of the British Empire Leprosy Relief Association to receive and expend fund received from the Indian Council and discharge all duties connected with the leprosy work in the province. The annual meeting of the Committee was held in October 1937 under the presidentship of the Minister of Local Self-Government.

Forty-one outdoor leprosy clinics function during the year as against 40 of 1936 and 17,967 patients were treated in them as against 17,072 of previous year. Over and above these outdoor clinics seven leper asylums also remained open throughout the year and a total of 2,415 in-patients and 2,335 out-patients received treatment in these institutions during the year, as against 1,850 in and 2,223 out-patients in the preceding year. Two sub-assistant surgeons were deputed during the year for special training in leprosy to the School of Tropical Medicine, Calcutta. A leprosy hospital constructed under the auspices of Dhanbad Leprosy Relief Association on a site provided by the Jharia Mines Board of Health was opened in October 1937. This hospital provided accommodations for the in-patients. Small leprosy surveys were also undertaken during the year in Dhanbad areas under the chief leprosy officer of Dhanbad Leprosy Relief Association, in Assabani area of the district of Santal Parganas under the medical officers of the leper colony at Saldoha and in groups of villages in sadr subdivision of Manbhum district under the Medical Officer of the Purulia Leper Home.

- 4. Inspection of Mines.—The Assistant Director of Public Health, Chota Nagpur Circle, inspected 25 mines in the district of Singhbhum as an ex-officio Inspector of Mines under the Mines Act and submitted reports on his inspections, copies of which were forwarded to the Chief Inspector of Mines. As a result of the recommendations made in the inspection reports considerable improvements are reported to have been effected in housing arrangements, conservancy, water-supply and provision for the speedy control of infectious diseases in these areas.
- 5. Rural and urban housing conditions.—The houses in the villages mostly remain in the same condition as they were decades ago. Most of them consist of two or three roomed huts with mud walls, mud floors and thatched roofs. A tew of the roofs are tiled and belong to the prosperous land-owning classes. The huts are mostly badly designed and are of ten

huddled together in more or less compact area, situated in the midst of the fields which provide means of livelihood. They are usually located on high grounds as precaution against floods but very little provision exists in them for ventilation. The villagers sleep outside during the hot and dry months of the year, but they aggregate together for warmth inside their huts during the winter months. Cattle lyres are provided near some of the huts but in most cases cattle, goats, fowls and dogs share the huts with the people. No building rules or by-laws are enforced in the rural areas. There are no regular roads inside the villages. The lanes and pathways as they are in existence are not paved and become quigmire in the wet weather. No organised conservancy service exists in the villages nor are drains. The lanes and pathways are seldom swept and refuse and house sweepings are deposited for the most part on some convenient spot either in or outside the huts. There are no latrines. The fields and vacant plots of land in close proximity to the villages, often within a few yards from the huts, are used for purpose of nature. Cattle-dung on account of its value as a manure is also stocked either inside the hut itself or somewhere very near it. Only the fairly well-to-do inhabitants use pit privies which are known as Sandas. The housing conditions in the urban areas are very much better. The urban population mainly consists of the rich land owners, who in most cases being dissatisfied with the lack of modern amenities, in the villages, have migrated to the towns. Business or professional men and various Government servants, all of them being placed in a prosperous position in life, have provided for themselves much more higher standard of living and better houses to live in. Building regulations and by-laws are enforced in all the municipalities and provisions are laid thereunder for the various sanitary arrangements. and provisions are laid thereunder for the various sanitary arrangements. An organised conservancy service exists in most of the municipal towns and piped water-supply is also available in some of the bigger towns, namely, Gaya, Patna, Bhagalpur, Muzaffarpur, Moyghyr, Arrah and Daltonganj. A reconstruction scheme under improvement trust constituted under semi-Government agency was put to operation for the towns of Darbhanga and Monghyr after the earthquake. This scheme provided for the road widening, relaying of the houses and provision of markets and open spaces but it did not lay down fixed conditions with regard to the exact plans or designing of the houses. These were left to the owners themselves. No marked progress was however made during the year under review in extending the operations of the scheme. As regards the housing conditions in the factory and mining settlement areas, by far the majority of the labourers are employed as day labourers. They are mostly drawn from the neighbouring villages and live in their own huts. An arrangement in recent year has been made by most of the factory owners to provide housing accommodations for such labourers and workers as do not return to their own houses at night. The Rohtas Sugar Factory employes 969 labourers and of these 200 live in one-room huts with brick walls and corrugated iron sheet roofs provided by the factory management whilst the Dumraon Sugar Factory, Buxar Sugar Factory and Gaya Sugar Mills employ 400, 300 and 800 labourers and of these 125, 40 and 80, respectively, live in oneroom huts of corrugated iron sheets provided by the factory owners. Eighty quarters for the assistants and ten bungalows for officers have also been provided by the management of the Rohtas Factory. Comprehensive housing provisions have also been made by the Tata Iron and Steel Company at Jamshedpur for its own employees. The majority of the labourers who reside in the factory at Jamshedpur live in the huts of approved designs either provided by the company or constructed by themselves with the aid of the subsides or easy term loans advanced by the Company. The minimum accommodation of a quarter has been fixed to two rooms with a kitchen, bathing place, latrine, verandah, courtyard and space for cowshed. Pipe water-supply is made available and drains and sewers are also provided. Considerable progress was also made during the year in providing a well laid out sanitary bustee or colony for the sweepers employed in the Company with the help of a special allotment of Rs. 66,000 for the purpose. A very ambitious scheme for the provision of housing accommodation at the Kadma and Dhaktidih areas in the Burma Mines and the northern town at an estimated cost of Rs. 8,12,300 was also put into operation during the year.

The Jharia Mines Board of Health requires "Standard Houses" to be provided by the colliery owners in accordance with specifications laid down in the housing by-laws framed under the Bihar and Orissa Mining Settlement Act. The standard houses are licensed for the accommodation of the labourers employed in the Board's areas on being certified by the board's medical officer of health after a personal inspection. Since April 1935, the board has embarked on a five years' programme in respect of the non-standard houses situated with the colliery areas, and they are being remodelled to standard specifications or demolished at the rate of 20 per cent annually till by the 1st April 1940, it is expected that there will be no non-standard houses in the Jharia Colliery areas. 28,938 standard houses were given license during the year 1937.

6. Notification of infectious diseases.—The Bihar and Orissa Municipal Act, 1935, providing for the compulsory notification of cases suffering from cholera, small-pox, plague and tuberculosis although came into force in all the municipal areas of the province, from 1st July 1935, it was found in 1937 that in actual practice full effect was not being given to its provisions and only a small proportion of the cases, specially of tuberculosis, was ever notified to the municipal areas.

The attention of the Assistant Directors of Public Health and the municipal health officers was, therefore, again drawn to the importance of early notification of these cases and it is expected that with fuller application of the provisions of the Act, the municipal health staff will be in a position to undertake preventive measures as soon as a case is reported and thus check the further spread of the disease with greater celerity.

- 7. Personal proceedings and office.—During the year under report the office of the Director of Public Health was held by Lieutenant-Colonel J. A. S. Phillips, C.I.E., I.M.S.; from the 1st January to the 14th February 1937 and Lieutenant-Colonel S. L. Mitra, I.M.S., from the 15th February to the end of the year. Of the Assistant Directors of Public Health, Rai Bahadur Dr. B. P. Mozoomdar was in charge of the Chota Nagpur Circle throughout the year. While Rai Sahib Dr. A. N. Chatterji remained in charge of the North Bihar Circle from the 1st January to 14th August and again from the 20th October to 31st December 1937, and Dr. B. N. Sinha held charge of this circle during the remaining period of the year i. e. from 1st August to 19th October 1937. Lieutenant-Colonel S. L. Mitra, I.M.S., was in charge of the South Bihar Circle from the 1st January to 14th February while Dr. S. M. Rahman remained in charge of this circle from the 16th February to the end of the year.
- 8. Touring.—During the year the Director of Public Health was on tour for 48 days and the Assistant Directors of Public Health, South Bihar, North Bihar and Chota Nagpur Circles, for 153, 159 and 133 days, respectively.
- 9. Personnel.—In conclusion, I would like to bring to the notice of Government the good work done by the Assistant Directors of Public Health and my Personal Assistant. Rai Bahadur Dr. B. P. Mozoomdar, Rai Sahib Dr. A. N. Chattarji and Dr. S. M. Rahman have given further proofs of their excellent and reliable work as Assistant Directors of Public Health. The work of Drs. Badrinarayan Singh, D. B. Mookharji and K. Mitra has been commendable. Dr. S. K. Chattarji's work and Dr. C. N. Banarji's work as Superintendent of Vaccine Depot have been quite satisfactory.

S. L. MITRA,
Lt.-Col., I.M.S.,
Director of Public Health, Bihar.

ANNUAL VACCINATION REPORT

OF THE

Province of Bihar for the year 1937-38.

- 1. The statistics in the Vaccination Report are for the financial year while the statistics in the Annual Public Health Report are for the calendar year. The arrangement facilitates the inclusion of the figures for the complete vaccination season from October to March in the Vaccination Report.
- 2. Staff. Lieutenant-Colonel S. L. Mitra, I.M.s., held charge of the office of the Director of Public Health throughout the year.

The whole province is divided into three circles for the purpose of Iublic Health Administration, namely, South Bihar, North Bihar and Chota Nagpur. Each is under the charge of an officer of the rank of the Assistant Director of Public Health. Rai Bahadur Dr. B. P. Mozoomdar was in charge of the Chota Nagpur Circle throughout the year. Dr. S. M. Rahman was in charge of the South Bihar Circle throughout the year. Rai Sahib Dr. A. N. Chatterji was in charge of the North Bihar Circle from 1st April to 14th August 1937 and from 20th October 1937 to 31st March 1938 and Dr. B. N. Sinha from 15th August 1937 to 19th October 1937.

The provincial vaccination inspecting staff consisted of nine district inspectors and 20 sub-inspectors of vaccination. The total number of vaccinators employed during the year was 1,184 of whom 83 were employed in towns and 1,101 in rural areas. Vaccination is performed by paid vaccinators in the municipal areas while licensed vaccinators are generally employed to perform vaccination operations in the rural areas. Each district has been divided into suitable small areas (elakas) and a licensed vaccinator who also has an apprentice with him is permitted to carry out vaccination within his area or elaka. The licensed vaccinator is allowed to charge a fee of annas two to four for each vaccination operation performed in the houses. There are also free vaccination depots in areas when the vaccination Act has been introduced and these are attended by the vaccinators on fixed days in a week and no fee is charged for carrying out vaccination at these depots. Besides these licensed vaccinators, paid vaccinators are also employed by the local bodies for short periods to deal with outbreaks of small-pox. Over and above these, Government provide for the temporary appointment of one hundred paid vaccinators every year and the Director of Public Health sanctions the appointment of these vaccinators by the local bodies or the Civil Surgeons for such periods as are considered necessary for combating epidemics.

3. Operation performed.—1,369,749 vaccination operations were performed during the year as against 1,586,143 during the previous year. This shows a decrease of 216,394 in the number of operations as compared with the figure for 1936-37.

There was an increase of 7,045 in the number of primary operations and a decrease of 223,439 in the number of re-vaccinations done during the year under report. Of the total operations performed 79.60 per cent were successful as against 72.52 in the previous year.

1,329,048 operations were performed by the vaccination staff as against 1,550,949 done in the preceding year. Of these 987,853 were primary and 341,195 re-vaccinations as against 980,315 primary and 5 0,634 re-vaccination in the preceding year. Although vaccination is generally recognised as the only preventive measure against small-pox, it has not yet become as popular as it should be with the masses in the province. When small-pox breaks out in an epidemic form, the people show some degree of willingness to get their children vaccinated, but when the epidemic is absent the incentive is much less and the number of vaccinations performed also falls. This is illustrated by the fact that during 1 20-27 when the disease broke out in an

epidemic form, a greater number of vaccinations was recorded, but the number of operations fell during 1923-29 when fewer cases of small-pox occurred. Again during 1932-33 when an epidemic of small-pox prevailed in the province, the number of vaccinations increased by 365,090 operations over those performed in the preceding year while during the year 1934-35 which happened to be a milder year for small-pox, the total number of vaccination operations appear to have been proportionately less and in the year 1935-36, 164,049 more operations were performed than the preceding year. During 1936-37 and 1937-38, a total of 1,586,143 and 1,369,749 operations respectively were performed which shows a decrease as compared to those done in 1935-36. This was due to lower incidence of small-pox in the province during these two years. Vaccination operations generally are more in demand during the years when the disease breaks out in severe epidemic form.

- 4. Vaccination in municipalities.—The number of operations performed in municipalities decreased by 39,3+7 as compared with last year's returns. The total number of operations performed was 95,950 and the number of successful operation was 51,746 of which 35,565 were primary and 16,181 re-vaccinations, as against 37,891 and 21,935 respectively in the previous year. The ratios of success in municipalities were 93.54 per cent for primary operations and 27.93 per cent for re-vaccinations as compared with 91.43 per cent and 23.37 per cent respectively of last year.
- 5. Vaccination in districts.—The number of operations performed in rural areas was 1,233,038 as compared with 1,415,652 in the preceding years and the ratios of success were 97.57 per cent for primary operations and 33.82 per cent for re-vaccination.

The district of Patna reported an increase of 4,142 and the districts of Gaya and Shahabad reported decreases of 419 and 8,885 respectively. The districts of Muzaffarpur, Darbhanga and Saran recorded decrease of 23,944, 14,029 and 2,404 respectively while Champaran recorded an increase of 9,753 In all these districts vaccination is controlled by the health officers of the district boards.

The districts of Bhagalpur, Monghyr, Santal Parganas and Purnea recorded decreases of 36,004, 13,421, 12,838 and 54,822 in the number of vaccination operations performed in these districts respectively. Vaccination in the rural areas of the districts of Bhagalpur and Purnea is controlled by the health officers of the district boards, but the Civil Surgeons still function as Superintendents of Vaccination in the districts of Monghyr and Santal Parganas.

The district of Palamau recorded an increase of 18,396 while the districts of Hazaribagh, Manbhum and Singhbhum recorded decreases of 7,023, 10,531 33,479 and 30,886 respectively. The Civil Surgeons still continue to be the Superintendents of Vaccination in these districts of Ranchi, Hazaribagh, Singhbhum and Palamau because Health Organization Scheme has not yet been introduced in these districts. Vaccination in the rural areas of the district of Manbhum is controlled by the health officer of the district board.

6. Vaccination in towns and compulsory areas.—Statement V shows that during the year 14,773 children under one year of age out of an available number of 23,882 or 61.85 per cent were successfully vaccinated.

The towns of Dinapur, Barh, Khagaul, Jagdishpur, Bettiah, Muzaffarpur, Sitamarhi, Hajipur, Lalganj, Madhubani, Jamalpur and Dhanbad show the smallest proportion of vaccination work done.

7. Protection of infants.—During the year under report the number of children under one year available for vaccination was 985,682 and the number of successful operations was 273,292 or 277 per thousand as against 273,466 or 278 per thousand successful operations out of 983,017 available children during the previous year. The protection of infants in municipalities is separately shown in statement V. It gives a ratio of successful vaccination 618 per thousand of the surviving infant population as compared with 661 per thousand in the previous year.

These figures still ramain unsatisfactory inasmuch as they show that nearly three-fourths of the total number of infants under one year were left unvaccinated in the rural areas and a little less than two-fifths in the municipal areas. This is attributed to the common prejudice of the people against vaccination at an early age. Though primary vaccination has been made compulsory in the majority of the districts and all municipal towns in the province, vaccination of the infants and children is avoided by many people. There are obvious advantages in retaining the present age limit to one year for compulsory primary vaccination. No untoward complication occurs after early vaccination and the people should be educated in the benefit of early vaccination because the sooner an unprotected child is vaccinated, the quicker it acquires protection against the disease and ceases to remain a source of danger to the community.

8. Incidence and mortality of small-pox.—The total number of deaths that occurred from small-pox in the province during the last ten years was 138,431.

During the first five years the number of deaths was 46,541 while during the next five years 91,890. In each of the last five years the mortality was as follows:—

- 28,747, 16,871, 21,179, 18,216 and 6,877. The provincial ratios of the mortality from small-pox per thousand population during the last five years have been 0.89, 0.52, 0.65, 0.56 and 0.21. There was a decrease in the incidence of small-pox in the province in 1927-28. In 19.8-29 there was a further reduction and in 1929.30 there was a still further reduction in the number of cases. In 1930-31, there was a small increase over the figure of 1929-30. In 1931-32 there was a further increase over the figure of 1930-31. In 1932-33 there was still further increase and in 1933-34 there was recorded a great increase over the figure of 1932-33, in 1934-35 the mortality figure fell down considerably. In 1936-37 the figure was slightly more than the preceding year. In 1936-37 the figure was less than the figure of 1935-36. In the year under report, the mortality figure fell down considerably.
- 9. Prevention of small-pox.—The proportion of vaccinated persons in the province still remains far below the figure necessary to prevent epidemic outbreaks and although the total annual vaccination operations amount approximately to two millions or so, these are quite insufficient to ensure the immunity of the total population against small-pox. Hence the incidence of this fell disease continues to remain high. This state of affairs is not so much due to insufficiency or inefficiency of the existing arrangement for vaccination in the province, but is chiefly due to the inherent apathy of the public towards this simple and efficient method of protection. Small-pox is a preventable disease and vaccination can prevent it. In the light of this knowledge and in face of the unsatisfactory vaccination state of the people there is a great necessity for a more vigorous and complete vaccination policy. Primary vaccination has been made compulsory for many years in all municipal towns, but all the provisions of the Act do not appear to be rigidly enforced with the result that a great proportion of the children do not get vaccination until they cross the first year of their lives. Besides, a large number of unvaccinated persons are to be found in every municipal town.

The incidence of small-pox can be definitely prevented provided repeated vaccinations are practised, but re-vaccinations are always accepted with reluctance and the people do not seem to realise that immunity conferred by primary vaccination wears out within 5 to 7 years. Thus during epidemics the percentage of protected persons is small and not until the diseases has had its toll that the public realise the importance of re-vaccination. Vaccination operations are easily done and generally cause no complications. No case of encephalitis following vaccination has so far been recorded in this province.

All the district boards which have health organisation schemes, have now assumed the responsibility of the control of vaccination in the rural areas and the cost of running the vaccination schemes is insignificant.

The Bengal Vaccination Act is enforced in the districts of Patna, Gaya, Shahabad, Hazaribagh, Muzaffarpur, Darbhanga, Saran, Purnea, Champaran and Bhagalpur and arrangements are being made to extend it to the district of Manbhum. Introduction of the Act in all the remaining districts of the province and definite arrangement for re-vaccination are necessary.

10. Inspection of work.—During the year under report the Assistant Directors of Public Health inspected 36,878 vaccinations (22,121 primary and 14,757 re-vaccinations) as against 44,619 in the previous year.

The Assistant Directors of Public Health performed vaccination inspection tours of 15 districts as compared with 14 in the previous year. Valuable reports were submitted on the work done in each of these districts.

- 11. The Superintendents of Vaccination of the province inspected 41,145 primary and 5,227 re-vaccinations against 43,300 primary and 13,739 revaccinations last year. The Vaccine Depot. Namkum, continued to supply the province with vaccine lymph throughout the year. A large supply of vaccine lymph is held in reserve and ample stock of the necessary stores and supplies for the manufacture is maintained. 2,933,190 doses of vaccine lymph were manufactured during the year as compared with 3,353,686 doses last year. 3,048,90° doses were issued as against 3,212,580 in the previous year and 4,775,327 doses were left in stock at the end of the year. The number of calves used for the manufacture of lymph during the year was 978 as compared with 1,118 in the previous year. The average yield of crude pulp per calf was 33,595 grammes. The total expenditure of the Vaccine Depot amounted to Rs. 34,913 during the year as compared with the expenditure of Rs. 37,185 of the previous year. The average cost of the vaccine lymph per dose came to 2.10 pies when calculated on the gross expenditure. The sale proceeds of vaccine lymph was Rs. 21,963 as compared with Rs. 27,769 of the previous year.
- 1?. Vaccine Depot and Cold Storage. There was no serious outbreak of any epidemic disease among the calves. Only a few had a mild attack of foot and mouth disease but the outbreak was promptly checked. Only fourteen calves died after admission into the Vaccine Depot, the death rate being 1.44 per cent during the year as compared with 0.8 per cent of the previous year. Besides vaccine lymph, cholera, plague and influenza vaccines were also as usual stocked at the depot.
- 13. Experimental work.—The following is a summary of the experiments carried out by the Superintendent during the year:—
 - (1) In the seed regeneration cycle it was found that the rabbit pulp used for vaccination of the buffalo calf should be as fresh as possible and that the paste from the crude pulp from a rabbit should be made immediately after scraping and applied on the buffalo calf.
 - (2) The dilution test for potency of lymph was introduced and all samples are being tested on calves at a dilution of 1 in 1,500 before issue.
 - (3) The experiment of mixing 1 per cent carbolic acid solution in vaccine lymph is not suitable as it deteriorates the vaccine lymph sooner in the cutside temperature.
 - (4) Crude pulp if preserved in the cold storage in crude form for about a year retains its potency fully and can be used. Whether the vaccine so prepared from it will keep full potency in the outside temperature or not is being investigated.
- 14. Cost of the Department.—The total cost of the Vaccination Department excluding that of the Vaccine Depot during the year, as noted in Statement I, was Rs. 50,673 as against Rs. 59,081 in the previous year.

The cost per each successful operation was nine pies as compared with ten pies of the last year.

- 15. Dr. C. N. Banerjee, the Superintendent of the Vaccine Depot, was deputed to the King Institute, Guindy, Madras, to study the working of the Lymph Department from the 15th November to 2nd December 1937. Since his return he has introduced better methods of mixing the lymph and filling it in the collapsible tubes. Other improvements will be possible to be effected after the electrical installation of the depot has been completed.
- 16. Personnel.—In conclusion, I desire to bring to the notice of Government the good work done by the Assistant Directors of Public Health in their respective circles.
- Dr. B. P. Mozoomdar was in supervising and controlling charge of the Vaccine Depot in addition to his own duties whilst Dr. C. N. Banerjee continued as Superintendent of the Depot Both the officers showed great keenness and interest in all matters connected with the depot.

S. L. MITRA, Lt.-Col., I.M.S., Director of Public Health, Bihar.

10 9 DPH

Annual Form No. 1 .- Birthe registered in the

1	2 3 3 3 3 3 3	oza V od 10	3	and said		***	
	posie visito	Population as	scording to the Cens	ns of 1931.	Numb	er of Births register	red.
No.	Discrects.	Male.	Female.	"otal.	Male.	Female.	Total.
_		Many established	Strange L		1		
	PATNA DIVISION.		Markow Cl. 200	manage of		SE DE LES	
1	Patna	. 956,124	890,350	1.846,474	34,188	33,183	67,371
2	Gaya	. 1,193,643	1,194,819	2,388,472	56,672	54,022	110,694
3	Shahabad	909,099	994,390	1,993,489	43,000	39,959	82,959
	Total	3,148,866	3,079,559	6,928,425	133,860	127,164	261,024
	TIRHUT DIVISION.						
4	Saran	1,220,049	1,266,419	2,486,468	47.861	45,764	93,624
5	-	1,080,956	1,064,731	2,145,687	36,380	34,571	70,951
6		1,443,847	1,497,178	2,941,025	49,616	47,300	98,976
7		1,570,959	1,595,135	3,166,094	50,786	47,902	98,658
	Total	. 5,315,811	5,423,463	10,739,274	184,642	175,597	360,239
	BHAGALPUR DIVISION.						
8	V		1111000	0.007154	40.000	41000	0.4.000
,		1,145,797	1,141,357	2,287,154	43,080	41,207 33,091	84,287
40		1,130,584	1,104,048	2,234,632	34,377	28,319	67,468
11		1,129,681	1,036,862	2,186,543 2,051,472	28,476	27,116	59,247 55,592
	Total .	4,431,983	4,327,818	8,759,891	136,861	129,733	266,504
	CHOTA NAGPUR DIVISIO	v					
12	Hazaribagh	7:1,956	765,401	1,517,357	28,045	27,207	55,232
13	D	777,063	790,086	1,567,149	25,037	24,347	49,404
14	D-1	409,778	408,958	818,736	17,041	16,437	33,478
15	W-11	. 940,009	870,881	1,810,890	26,575	24,730	51,305
16	Singhbhum	469,421	460,381	929,802	12,162	11,199	23,351
	Total	3,348,227	3,295,707	6,643,934	108,880	103,920	212,800
	Total for the Province	16,244,887	16,126,547	32,371,434	564,243	535,414	1,100,657

DIX I. districts of Bihar Province during the year 1937.

		5		6	7	8		9		1
Rs	tio of birt	hs per 1,000 of pe	pulation.				Mean ratio of bir	the per 1,000 duri five years.	ng previou	
, Male	e.	Female.	Total.	Number of males born to every 100 fe- males born.	Excess of births over deaths per 1000 of population.	Excess of deaths over births per 1,000 of popu- lation.	Male.	Female.	Total.	-
-	1							1		1
	18'5	17-9	36:4				17-4	16-7	34:1	1
	23-7	22.6	46.3				22.7	22-0	44.7	1
	22.0	210	42-0		_		20-8	19'1	40-0	
	21.5	20-4	41-9				20.5	19-5	40.0	
T.V.									and a	
	19:2	18-4	37:6	140		Tak.	18.8	17-7	36.5	
	16.9	16.1	33-0				17-4	16-6	34.0	l
	16-9	16-1	33.0				18.4	17'4	35-8	
	16:0	15:1	81-1	-			164	15/5	31-9	
	17-2	16:3	33-5				177	16.7	24:4	
								rau		
	18'8	18-0	36.8				19-6	18-3	37-9	
	15-4	14-8	30 2				16-2	15.4	31.6	
	14-1	18-0	271	***			15-7	14:3	80.0	
	13-9	13-2	27-1	444			14:3	13:5	27.8	
	15-6	148	80.4	-	-		16-5	15:4	31-9	
			CO.							
	18-5	17-9	31.4				17-9	17:3	35-3	
	15-9	15-6	31.2	141			16:0	15.7	31:7	
	20-8	20.1	40-9				21:4	20-9	42-3	
	147	13.6	28-3				14-7	14.0	287	
	14:9	13-7	28-6				13.0	12-4	25.4	
	16.4	15-6	52-0	214	4.		16:3	15-8	82.1	
1	17:4	16.6	34.0	103	11:5		17-6	16-7	34.4	

Annual Form No. IA.—Births registered according to class in each town and rural areas in

1			2			3	
			Christians,			Hindos.	
Registering circle.		Male.	Fewale.	Tot 1,	Male.	Female,	Total.
PATNA.							
Patna town					963	880	1,845
Bihar town					289	293	581
Dinapur Nizamat town					181	201	385
Dinapur Cantonment	0.00	2	2	4	100	92	192
Barh town					97	96	193
Khagole town					76	62	138
	-						
Total of towns		2	2	4	1,706	1,624	3,3 (
Total of rural					30, 53	29,113	59,166
Total of district		2	2	4	31,759	30,737	62,496
GAYA.							
Gaya town					1,0 9	1,000	2,039
Tikari town					95	101	196
Daudnagar town					198	184	382
	1						
Total of towns					1,592	1,285	2,677
Totaltof rural	***				49,941	47,942	97,888
Total of district					51,3.3	49,227	1/10,560
SHAHABAD.							
Arrah town	***	. 1		1	211	163	374
Buxar town					133	137	270
Dumraon town					120	. 89	209
Jagadispur town	***		***		61	51	112
Basaram town					216	194	410
Bhabus town			***		50	34	84
Total of towns		1		1	791	668	1,459
Total of rural			1	1	39,741	37,047	76,791
Total of district		- 1	1	2	43,535	37,715	78,250
2000.00	-					.,,	

DIX I-contd.

the districts of Bihar province during the year 1937-contd.

				5			•			7	
3	fuhammadans,			Buddhists			Other Classes,	1		Total,	
Male,	Female.	Total,	Male.	Female,	Total.	Male,	Female,	Total,	Male.	Female.	Total,
268	257	525					1	1	1,231	1,138	2,369
79	77	156							368	870	738
48	39	87							229	240	469
24	28	52					1	1	126	123	245
26	25	51							123	121	241
16	9	25							92	71	163
461	435	896					2	2	2,169	2,063	4,23
1,966	2,007	3,973				***			32,019	31,120	63,139
2,427	2,442	4,869					2	2	34,188	33,183	67,37
0										S 11	la dia
272	251	528	-						1,371	1,251	2,62
29	21	50							194	122	24
38	42	80							236	226	460
339	314	653							1,731	1,599	3,83
5,000	4,481	9,481							54,941	52,423	107,86
5,339	4,795	10:134			-				56,672	84,022	110,69
70	51	121							284	214	49
37	83	70							170	170	5.4
15	20	35							135	109	24
29	21	50							90	73	16
63	70	133							279	264	54
24	12	36		-	-		-		74	46	12
238	207	443							1,030	875	1,90
2,226	2,036	4,262	-						41,970	39,081	81,03
2,464	2,243	4,707							43,060	39,959	82,98

APPEN

Annual Form No. IA .- Birth's registered according to class in each town and rural areas

1		100000	2			3	
			Christians.			Hindus.	
Registering elrele,	244	Male.	Female,	Total.	Male.	Female.	Total.
SABAN.							1
Chapra town		***			586	515	1,10
Revelganj town					135	106	24
Siwan town					180	158	33
		-					
Total of towns					901	779	1,68
Total of rural					39,174	37,796	76,970
Total of district		***	***		40,075	28,575	78,650
CHAMPARAN.	4	4				14 144	100/2
Beltiah town		40	58	107	349	298	64
Motihari town	***				105	101	20
Total of towns		49	58	107	417	402	84
Total of rural		7	10	17	30,647	28,792	59,43
Total of district		56	69	124	31,094	29,194	60,28
MUZAFFARPUR.	-						1000
Muzaffarpur town		2	1	3	352	323	67
Sitamarhi town			***		103	112	22
Hajipur town					308	264	570
Lalganj town				***	114	144	25
Total of towns		2	1	3	880	843	1,72
Total of reral		6	7	13	42,882	40,631	83,51
Total of district		8	8	16	43,762	41,474	85,23
DARBHANGA.		-					
Darbhanga town	- "		***		674	604	1,27
Roserah town					139	85	92
Samastipurtown					126	118	24
Madhubani town					171	146	313
Total of towns	19	64-1			1.110	12.5	1000
m. 1 . f 1					1,110	953	2,06
Distra	- "				43,181	40,841	84,02
Total of district					44,291	41,794	86,08

in the districts of Bihar province during the year 1937-contd.

DIX I-contd.

174 36 68 278 7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565	137 43 62 242 6,947 7,189 145 60 205 5,104	311 79 130 520 14,154 14,974 316 123 439 10,100	Male, Male,	Female.	Total	, Form	Female,	Total.	Male, 760 171 248 1,179 46,681 47,860 562 168 730 35,650	Total. Female. 662 149 230 1,021 44,743 45,764 501 164 665 33,906	1,412 320 468 2,200 91,424 93,624 1,063 323
174 36 68 278 7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565 5,846	137 43 62 242 6,947 7,189 145 60 205 5,104	311 79 120 520 14,454 14,974 316 123 439 10,100				Male,			760 171 248 1,179 46,681 47,860 562 168	652 149 230 1,021 44,743 45,764 501 164 665 33,906	1,413 320 468 2,200 91,424 93,624 1,063 393 1,395 69,556
36 68 278 7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565	43 62 242 6,947 7,189 145 60 205 5,104	79 120 520 14,454 14,974 316 123 439 10,100							1,179 46,681 47,860 562 168	149 230 1,021 44,743 45,764 501 164 665 33,906	93,624 93,624 1,063 393 1,395 69,556
36 68 278 7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565	43 62 242 6,947 7,189 145 60 205 5,104	79 120 520 14,454 14,974 316 123 439 10,100							171 248 1,179 46,681 47,860 562 168	149 230 1,021 44,743 45,764 501 164 665 33,906	93,624 93,624 1,063 333 1,394 69,556
68 278 7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565 5,846	62 242 6,947 7,189 145 60 205 5,104	120 520 14,154 14,974 316 123 439 10,100							1,179 46,681 47,860 562 168	1,021 44,743 45,764 501 164 665 33,906	2,20, 91,42, 93,624 1,065 33; 1,396 69,556
278 7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565 5,846	242 6,947 7,189 145 60 205 5,104	520 14,454 14,974 316 123 439 10,100							1,179 46,681 47,860 562 168	1,021 44,743 45,764 501 164 665 33,906	2,20 91,42 93,62 1,06 32 1,39 69,55
7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565 5,846	7,189 145 60 205 5,104	14,454 14,974 316 123 439 10,100							46,681 47,860 562 168	44,743 45,764 501 164 665 33,906	91,42 93,62 1,06 32 1,39 69,55
7,507 7,785 171 63 234 4,996 5,230 153 30 63 35 281 5,565 5,846	7,189 145 60 205 5,104	14,454 14,974 316 123 439 10,100							46,681 47,860 562 168	44,743 45,764 501 164 665 33,906	91,42 93,62 1,06 32 1,39 69,55
171 63 234 4,996 5,230 153 30 63 35 281 5,565	145 60 205 5,104	14,974 316 123 439 10,100							562 168 730	501 164 665 33,906	1,06 32 1,39 69,55
171 63 234 4,996 5,230 153 30 63 35 281 5,565	145 60 205 5,104	316 123 439 10,100							562 168 730	501 164 665 33,906	1,06 32 1,39 69,55
171 63 234 4,996 5,230 153 30 63 35 281 5,565	145 60 205 5,104	123 439 10,100 10,539							730	501 164 665 33,906	1,06 32 1,39 69,55
171 63 234 4,996 5,230 153 30 63 35 281 5,565	205 5,104	123 439 10,100 10,539	1, III						730	164 665 33,906	1,06
234 4,996 5,230 153 30 63 35 281 5,565	205	439 10,100 10,539							730	665 33,906	1,39
4,996 5,230 153 30 63 35 281 5,565 5,846	5,104	10,100	1,77		7					33,906	69,55
5,230 153 30 63 35 281 5,565	5,104	10,100	1,77		7				35,650	trans to Jan	69,55
153 30 63 35 281 5,565	5,309	10,539	-	-						12.12 (0.12	
153 30 63 35 281 5,565	5,309					***					***
30 63 35 281 5,565 5,846	32			-					36,980	34,571	70,95
30 63 35 281 5,565 5,846								11.		100	or produ
63 35 281 5,565 5,846	144	297 52						-	138	468 134	97
281 5,565 5,846	49	112			***	***			369	313	68
5,846	21	56							149	165	31
5,846			8								-
5,846	236	517							1,163	1,080	2,24
	5,612	11,207			***				48,453	46,980	94,73
288	5,878	11,724							49,616	47,360	96,97
288			-		-						
	260	548				,			962	864	1,82
29	10	39							168	95	20
18	12	30							144	130	27
105	65	170							276	211	48
440	POSSESSES.	787							1,550	1,300	2,85
17.15	347		1			1 40		1 17	49,236	46,602	95,88
6,495	347 5,761	11,816	***	200000				- ""		120	

APPEN

Annual Form No. LA.—Births registered according to class in each town and rural areas

1			2			,	
Registering circle.			Christians.			Rindus.	
and want on	.000	Male,	Female.	Total.	Male	Female,	Total.
Mongeys.							
Mongbyr town		1		1	618	518	1,166
Jamalpur town		4		4	424	495	919
Total of towns		5		5	1,072	1,013	2,085
Total of rural		4	1	5.	38,073	36,459	74,532
Total of district			-	10	39,145		
Total of district		9	1	10	38,140	37,472	76,617
BHAGALPUB.							1
Bhagalpur town					697	673	1,370
Colgong town					73	46	119
							100
Total of towns					770	719	1,489
Total of rural	***	•••	***		29,721	29,141	58,862
Total of district	1				80,491	93.000	60.041
Total of district						27,860	60,851
Pubnea.							100
Purnea town					66	55	121
Kishenganj town					87	36	73
Katihar town	•••				67	48	115
Forbesganj town					49	47	96
		1 1/1/2					11/2
Total of towns					219	186	405
Total of rural					18,365	16,796	35,161
Total of district					18,584	16,982	35,566
SANTAL PARGANAS.					68		
Sahibganj town Deoghar town					49	37	112
Deoghar town					31	24	86
Madhupur town		1			46	39	88
175-1811 100							- 00
Total of towns		1		1	197	144	341
Total of rural		48	39	87	13,579	12,968	26,547
Total of district		49	39	88	13,776	13,112	26,888

DIX 1—contd.

in the districts of Bihar province during the year 1937—contd.

	•	4	1	5			6		1	, ,	
Mu	hammadans.	eo juli	1	Buddhiet	•.	and the second	Other Classes,			Total.	
Male,	Female,	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female,	Total.
104	138	267							783	651	1,43
90	68	156							518	561	1,07
224	199	423							1,301	1,212	2,51
3,702	3,535	7,237			61			-	41,779	39,995	81,77
3,926	3,734	7,660	90,22		V.		or i		43,080	41,207	84,28
104	100	isl	us.		111	34	-63	1 111			cwss 125
138	126	264			S				835	799	1,63
15	11	26					110		88	57	14
163	137	290			931,1		2,60,0		923	856	1,77
3,733	3,094	6,827							33,454	32,235	65,68
3,836	3,231	7,117					1101		34,377	33,091	67,46
LCE,OL-	1000				232	120	401			totatall to 1	nor.
47	41	88							113	96	20
37	10	66 26	***						74	65 58	13
32	14	46							81	61	14
132	94	226							351	280	63
12,212	11,243	23,456							30,577	28,039	58,61
12,344	11,337	23,681	a la constant		-				30,928	28,319	59,24
	111		. 1							100	(a) and
16	18	34	10						. 84	62	14
12	2	14			**-				61	39	10
10	3	13			300	-	1	1	57	43	10
43	31	74					1	1	241	176	41
3,524	3,242	6,766	ERED !		171	11,084	10,691	21,775	28,235	26,940	55,17
3,567	3,273	6,840	50 AT 31		***	11,084	10,692	21,776	28,476	27,116	55,59
2000	Total Total	15			San of	1 1900	10.7		Marine San	BISTON TAR	3/19

APPEN

Annual Form No. IA.—Births registered according to class in each town and rural areas

	1		1	-	,	1		3	
	10/19			ALEXAND.	Christians.		STATE .	Hindus.	THE ALL
	Registering o	rirele.		Male,	Female.	Total.	Male.	Female,	Total.
	HAZABIBA	GH.	1			T			
Hazaribagh to	wn						150	143	29
Chatra town	***						. 89	115	20
Giridih town							92	94	18
Total	of towns						331	352	68
Total	of rural			10	6	16	25,363	24,686	50,04
Total	ot district			10	6	16	25,694	25,038	50,73
	200,130								-
	RANCHI								
Ranchi town				51	35	86	256	238	49
Lohardaga tow				2.	3	. 5	59	51	110
	of towns		****	58.	38	91	315	289	60
	of rural			3,547	3,560	7,107	7,952	7,697	15,64
Total	of district	dep.		3,600	3,598	7,198	8,267	7,986	16,25
	PALAM	AU.						200,0	TEXT.
Daltonganj to	wn						81	85	16
Total	of rural	***		163	120	283	15,272	14,795	30,06
Total	of district			163	120	283	15,853	14,880	30,23
	MANBHU	w.						4 14	-12
Purulia town	es	37		5	12	17	213	191	40
Raghunathpur	town	19					119	76	19
Jhalda town	10	18		3	5	8	81	61	14
Dhanbad town				4	1	5	170	238	
	of towns	100.		12	18	30		566	40
	of rural		-	27			583		1,14
1000	0. 14101				18	45	22,798	21,437	44,23
Total	of district	and the same		39	36	75	23,381	22,003	45,38
	SINGHBE								1000
Ob alba as dame									
Chaibessa town				4	6	10	105	77	18
Chakradharpu		***		5	2	7	61	62	12
Jugaalai town							95	74	16
amshedpur to		***		2	2	4	152	94	24
	of towns	***		11	10	21	413	307	720
	of rural			83	69	151	5,809	5,330	11,13
Total Pro	of district		377,	94	78	172	6,222	5,637	11,85
Total	of towns			136	127	263	11,208	10,215	21,42
Total	of rural	1112	113	3,895	3,830	7,725	452,654	431,471	884,028
F-4-3	of district			4,031	3,957	7,988	463,762	441,686	905,448

DIX I—contd.

in the districts of Bihar province during the year 1937—concld.

	•			5					5.	7	
. x	(ohammadans,		,	Buddhista			Other classes.			Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male,	Female.	Total.	Male,	Pemale.	Total.
							.				
35	25	60							185	168	353
49	40	89	o	***					138	155	29
55	29	84							147	123	27
139	94	253							470	446	91
1,950	1,842	3,792		'		252	227	479	27,578	26,761	54,33
2,089	1,936	4,025				252	2 7	479	28,045	27,207	55,25
88	82	170				1		1	396	355	75
44	28	72				8	3	11	113	85	19
132	110	242	-	-		9	3	12	509	440	94
994	934	1,928			***	12,055	11,716	13,771	24,548	23,907	48,45
1,126	1,044	2,170		-		12,064	11,719	23,783	25,057	24,347	49,40
1,110	11,0 4,00	2,170	177.4		***	12,000	11,720	20,700			
		3	77.7								
22	21	43							103	106	20
1,503	1,416	2,919							16,938	16,331	33,26
1,525	1,437	2,962	7.00			'			17,041	16,437	33,47
	1	-	8					100	A PROPERTY.		
30	21	51							248	224	47
3	3	6		-					122	79	20
. 4	10,0	4							88	66	15
49	42	91				6	2	8	229	283	51
86	66	152	10000			6	2	8	687	652	1,33
1,386	1,178	2,564			440	1,677	1,445	3,122	25,888	24,078	49,96
1,000	1,170	2,004				1,011	1,000	0,120	CAUAN		
1,472	1,244	2,716	1			1,683	1,447	3,130	28,575	21,730	51,30
		1							1		8
12	14	26	!		1	16	12	28	137	109	24
8	4	12				1	3	4	75	71	14
30	11	41				5		.5	130	85	2
19	11	30	-	-		9	6	15	183	113	25
69	40	100				31	21	52	524	378	94
63	61	124	-			5,683	5,362	11,045	11,638	10,821	22,4
03	- 01	109				0,000	0,003				
132	101	233				5,714	5,383	11,097	12,162	11,199	23,30
3,271	2,778	6,019	-	-	-	48	27	75	14,661	13,149	27.8
62,3/2	58,523	120,905	-			30,751	29,441	60,192	549,582	523,265	1,072,8
65,653	61,301	126,954	-	***		30,799	29,468	60,267	564,243	536,414	1,100,6

APPEN

Annual Form no. IB .- Still births registered according to class in each town and rural

The second second second		THE PARTY OF THE P			The state of the s			
1			2		1	3		1
			Christians.			Hindus.		1
Registering cir	rele,	Male.	Female.	Total.	Male.	Female.	Total.	1
								1
Patna. Patna town					15	2	17	
Bihar town .				1	3	48	3	J.
Dinapur Nizamat te	own				8	3	11	7
Dinapur Cantonmer		ver			1	1911,E 3	BELT 1	de
Barh town	915		1		4	010,A	8	di.
Khagole town					1	1	2	1
100		-						
Total of town	as				32	13	45	4
Total of rura					1,686	1,405	3,091	1
SULSE OF BRAIN						1000	100	
Total of distr	riot		1,00,01		1,718	1,418	3,136	-
								1
GAYA.					-			1
Gaya town		1110			71	79	150	1
Tikari town			1.000	***	7	6	13	1
Daudnagar town					6	4	10	ı
Total of town		1			84	89	173	1
Total of rura					100	1,158	4	1
Total of rura					1,466	1,108	2,624	1
Total of distr	ict				1,550	1,247	2,797	10 12
	901							-
SHAHABAD.								1
Arrah town			.504		1	3	4	10
Buxar town					1	1	2	ı
Dumraon town								l
Jagadispur town	200				1	1	2	
Sasaram town							11 1	1
Bhabua town								1
Total or town	8				3	5	8	10
Total of rural			1.00		11	19	30	1
Total of distri					14	24	38	1
						713	.00	

DIX I-contd.

areas in the districts of Bihar province during the year 1937—contd.

	4			5		8	6	.		7	
Mul	ammada	ns,	В	uddhists.		Otl	ner Classe	8.		Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
										Suns	
1	5	6							16	. 7	23
1		1							4		4
1		1	10.						9	3	12
									1	3	4
									4	10 to 10	8
								••	1	1	2
3	5	8							35	18	53
22	16	38							1,708	1,421	3,129
						-					Lylebooti
25	21	46							1,743	1,439	3,182
111	1 3					1 1			11	no bila	1/2
10	15	25	411.1						81	94	175
1100									7	6	13
									6	4	10
100	1	-	11							-	-
10	15	25							94	104	198
72	60	132	200			1			1,538	1,218	2,756
82	75	157							1,632	1,322	2,954
1					-	1				- un 3o fe	100
			Tati			-		1,1		1000	
1	1	1			1				1	1	5 3
				::			::		1		
	1						1			1	
3		3	10000								5
3	2	5							6	7	13
4	6	10							15	25	40
7	8	15	1				1		. 21	32	53
-	13	-	-			1				9 D.	P.H

APPEN

Annual Form no. IB.—Still births registered according to class in each town and rural

y 1	. 0	2	0		3	
JatoT		Christians.		holf.	Hindus.	medala
Registering circle.	Male.	Female.	Total.	Male.	Female.	Total.
SARAN.						
Chapra town				23	16	39
Revelganj town				3	4	7
Siwan town				- 11	3	14
Total of towns	-			37	23	60
Total of towns				1,690	1,256	2,946
2				2,000	1,200	2,040
Total of district				1,727	1,279	3,006
						-
CHAMPARAN,						
Bettiah town				5	1	6
Motihari town				3	3	6
Total of towns				8	4	12
Total of rural				1,239	1,064	2,303
Total of district				1,247	1,068	2,315
13						
MUZAFFARPUR.				11	13	24
Muzaffarpur town					13	1
				7	6	13
				4	2	6
Lalganj town					701 63	
Total of towns				22	21	43
Total of rural				2,334	1,827	4,161
Total of district				2,356	1,848	4,204
DARBHANGA.					F 11	-
Darbhanga town				12	18	30
Roserah town				1		1
Samastipur town			i	2	2	4
Madhubani town				5	6	11
Total of towns				2)	26	46
Total of rural	• • •		144	641	564	1,205
Total of district	***			661	590	1,251

DIX I-contd.

areas in the districts of Bihar province during the year 1937—contd.

	4			5		1	6			7	
Mul	hammada	ns.	Bu	ıddhists.		Otl	her Classe	8.		Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total-
										vacanity.	
									23	16	39
B									3	4	7
e			1.						11	3	14
-									37	23	60
241	225	466							1,931	1,481	3,412
241	220	400			•••		- 1		1,001	1,401	0,410
241	225	466							1,968	1,504	3,472
			12							See So la	7
2	3	5	100						7	4	11
			022						3	3	6
2	3	5							10	7	17
193	173	366							1,432	1,237	2,669
195	176	371							1,442	1,244	2,686
										mana	
6	3	9	1						17	16	33
										-	
2		2	1.0						9	6	15
									4	2	6
8	3	11							30	24	54
449	333	782							2,783	2,160	4,943
457	336	793	1						2,813	2,184	4,997
				-							THE STATE OF
ici			lie	,				1	10	00	
1	2	3							13	20	33
									2	2	1 4
2	3	5	1						7	9	16
3	5	8							23	31	54
161	112	273							802	676	1,478
164	117	281	1			1			825	707	1,532

Appen

Annual Form no. IB.—Still births registered according to class in each town and rural

1		9	2			3	
· Jan			Christians.	-	fisher	Hindus.	oredata
Registering circle.	· v	Male.	Female.	Total.	Male.	Female.	Total.
Monghya.							
Monghyr town					8	. 5	13
Jamalpur town					3	3	. 6
Total of towns					11	8	. 19
Total of rural					1,427	1,243	2,670
Total of district					1,438	1,251	2,689
BHAGALPUR.					1,100	1,201	2,000
Bhagalpur town					23	10	33
Colgong town					20		
Total of towns					23	10	33
Total of rural					427		752
11 2000						325	
Total of district					450	335	785
PURNEA.						0 5	
Purnea town	••				3	1	01
Kishenganj town					2	1	3
Katihar town						2	2
Forbesganj town						1	1
Total of towns					6	4	10
Total of rural					707	491	1,198
Total of district		1.00			713	495	1,208
SANTAL PARGANAS	3.		- 1				
Sahibganj town							
Deoghar town						1	1
Dumka town					1		1
Madhupur town					"		
Total of towns				1		1	2
Total of rural					94	41	135
Total of district	••		•••		95	42	137
Hazaribagh town							
Chatra town					. 1	1	2
Giridih town							
Total of towns Total of rural	::	::	::	::	1 445	305	750
Total of district					- 446	306	752

DIX I-contd.

areas in the districts of Bihar province during the year 1937-contd.

		4	- 7		5		10-15-1	6			7	
	Mul	hammada	ns.	В	uddhists.		Ot	her Classe	s.		Total.	
-	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
-											The same	
										8	5	13
										3	3	6
1										11	8	19
	490	405	895							1,917	1,648	3,565
	490	405	895							1,928	1,656	3,584
1												
1										23	10	33
											100	
1		.,								23	10	33
	59	63	122				••			486	388	874
1	59	63	122							509	398	907
					**					3	1	. 4
-	1		. 1	**	••					. 3	1	4
1											2	2
										1		1
1	1		1	***						7	4	11
-	481	388	869							1,188	879	2,067
	482	388	870							1,195	883	2,078
1												
1		**			**	**	**					
-			-							1		1
1												
-			-					-		1	1	2
-	17.	18	35				46	49	95	157	108	265
	17	18	35				46	49	95	158	109	267
	1	0	1							2	1	3
1												
1	1		1 50				2		2	2	1	3
-	29	29	58	**		••	2		2	476	334	810
1	30		55				_		-	475	9 D.1	813

APPEN

Annual Form no. IB.—Still births registered according to class in each town and rural

1			2			3	
			Christians.		A STATE OF THE STA	Hindus.	n - 8
Registering circle.		Male.	Female.	Total.	Male.	Female.	Total.
RANCHI.							
Ranchi town					2	1	. 3
Lohardaga town			1	1		3	3
Total of towns			1	1	2	4	6
Total of rural		179	170	349	289	241	530
Total of district		179	171	350	291	245	536
PALAMAU.							
Daltonganj town					1	:	1
Total of rural		3		3	331	230	561
Total of district		3		3	332	230	562
MANBHUM.		-					
Purulia towa					1		1
Raghunathpur town					1		
Jhalda town						1	1
Dhanbad town					5	. 3	8
Total of towns					6	4	10
Total of rural					270	163	433
Total of district					276	167	443
SINGHBHUM.							
Chaibassa town		1		1			
Chakradharpur town			1		10	2	12
Jugsalai town							
Jamshedpur town					1		. 1
Total of towns		1		1	11	2	13
Total of rural			1	1	108	73	181
Total of district Province.	a	1	1	2	119	75	194
Total of towns		1	1	2	268	215	483
Total of rural		182	171	353	13,165	10,405	23,570
Total of districts		183	172	355	13,433	10,620	24,053

DIX I-contd.

areas in the districts of Bihar province during the year 1937—concld.

	4			5			6			7	
Mul	nammada	ns.	В	uddhists.		Ot	her Classe	a.		Total.	
Male.	Female.	Total	Male.	Female.	Total	Male.	Female.	Total	Male.	Female.	Total.
						1	3	4	3	4	7
	1	1				1	2	3	1	7	8.
	-1	1				2	5	7	4	11	15,
70	35	105				333	195	628	871	741	1,612
70	36	106				335	309	635	875	752	1,627
-											
									1		1
25	17	42							359	247	606
25	17	42							360	247	607
	1	1							1	1	2
										1	1
									5	3	8
	7	1							6	5	11
5	5	10				5		5	280	168	448
5	6	11				5		5	286	173	459
								2.4			
									1		1
									10	2	12
			4								
									1		1
									12	2	14
2	1	.3				116	79	195	226	154	380
2	1	3				116	79	195	238	156	394
31	35	66				2	.5	7	302	256	558
2,320	1 886	4,206				502	421	925	16,169	12,885	29,054
2,351	1,921	4,272				504	426	932	16,471	13,141	29,612

Annual Form No. 11 .- Statement of Deaths registered

		1	2				3	4		5		6
		Table 17			0.000			are mile.	Number	of deaths re	gistered.	males to every
.			District.				e miles.	Average population per square mile.			1	athe of male
							Area in square miles.	Average popu	Male.	Female.	Total.	Number of deaths of
		PATN	A DIVI	SION.								
1	Patna					-	2,068	893	21,194	20,405	41,559	
2	Gaya		***				4,716	506	33,402	31,480	€4,882	
3	Shahabad	***	***				4,372	456	23,251	22,655	45,906	
				Total			11,154	558	77,847	74,510	152,387	
		TIRHU	r DIVIS	ION.								
4	Saraha						2,083	927	26.318	23,224	49,542	
5	Champaran	***	10.		***		3,531	607	21,820	18,172	39,992	
6	Musaffarpar		***	***	***		3,036	968	35,658	31,649	67,307	-
7	Darbhanga	***		***			3,348	945	39,169	33,843	73,012	
				Total	141		12,598	852	123,965	106,888	229,853	
	В	HAGALPUI	R DIVIS	ION.							1	
8	Monghyr						3,927	\$82	26,152	21,404	50,556	
9	Bhagalpur	***	***				4,226	528	32,120	28,785	60,905	***
10	Purnes		***		***		4,972	439	33,542	29,354	62,896	***
11	Santal Parganas	***	***				5,418	375	18,708	15,597	84,825	
				Total			18,583	471	110,542	98,140	208,663	
	СН	OTA NAGP	UR DIV	ISION.							17.00	
12	Hazaribagh		***	***	- 100	-	7,021	216	17,394	15,624	33,018	
13	Rauchi	***	+41	***	***		7,102	220	18,130	15,906	31,038	***
14	Palaman	***	***	***	- 111		4,916	166	13.49	11,405	23,897	***
15	Manbham	***	***				4,005	442	17,784	13,953	31,737	
16	Singbbhum	***	***	***		-11	3,879	239	8,601	7,243	15,844	
	68 11			Total	***	-100	27,013	235	7,55401	65,131	138,532	101
	Total for the	2 3				-	69,348	465	85,755	843,690	729,454	1

DIX I-contd.

in the districts of Bihar Province, during the year 1937.

			**	- !										-
	years.	of deaths p	Mean ratio during pre				m-	pulstion fro	000 of por	te per 1,	Death-ra			
					All causes.									
No.	Total.	Female.	Male.	Total.	Fernale.	Male.	All other causes.	Injuries.	Respiratory diseases.	Dysentery and diarrhosa.	Povers.	Plague.	Small-pox.	Cholera.
	1		1 1	Bellety.	1									
1	20.0	20.9	20.4	22 5	55.0	22-2	6-4	03	07	0.6	13-3		0.3	0
	27.1	1 92	:80	27-1	26:3	28.0	5.2	0.3	0.07	0.1	20.1		0.4	0-6
	23 0	22.6	23.3	23 0	23.0	23 4	4.8	0.5	0.01	0-02	17-4	0:0005	0.4	0.1
	23-9	23.5	24.2	21:5	242	24.7	5.6	0.3	0-2	0.5	17:3	0-0001	0:4	0.2
														THE STREET
	20.7	19 2	23 2	199	18:3	21.5	6-9	0.4	0.2	0.1	11.3	0.4	0.3	0.1
	22-5	20.1	22-8	18-6	17-1	20-2	2.8	0-2	0.01	0.01	15.4	0.03	0.5	0.01
	23.€	12-4	24-8	22-9	21.1	24.7	2.0	03	0.03	0.04	19.7	0.09	0-03	0.6
	21:1	19 9	22.4	23.0	21 2	24-9	1.7	0.4	0.02	0-1	20-2	0.01	0.08	0.2
	£1 8	20-5	23.1	21:4	. 19.7	23-1	3.2	0.4	0.08	0-07	17:0	0.1	0 1	0.3
											1027			08.0
	23'5	22.6	24.4	22 1	21.4	22 8	41	0.5	0.02	0.04	16-4		0.2	1.0
	23.2	22-0	24'3	27-2	26 0	28.4	24	2.0	0.03	0.04	23-1	0.0003	0-2	1.2
1	24.2	23-4	25.0	28 8	27.8	29.7	1.2	0.5	0.02	0 04	27.0		0.1	0.1
1	19 0	17-6	20 4	16 7	15-2	18 2	1.2	0.1	01	0.04	14/3		03	0.6
	22.5	21.4	23-6	23 8	22-1	219	2-3	0-2	0.02	0:03	20-3	0 0006	0.2	0.7
	21.0					00.1								
1	21·2 12·3	20.0	22.5	21.7	20.4	23·1 23·3	26	02	0.03	0.06	18.4		0.03	0.03
1	26-7	25-4	28-0	29-2	20·1 27·9	3)-5	38	0.5	0.004	0.01	24-0		1.0	0.05
1	18 5	17.5	19-4	17.5	16.1	189	14	0-2	0.1	0-05	15:2		0.4	0.08
1	15.4	14/3	16.8	19.4	17:5	21'4	1.7	0.3	0 02	0-1	169		0-2	0-2
	20.0	19 4	21:8	20 8	19 5	22 2	2.4	0-2	0.05	0.5	17:6		0-3	0-1
	22 1	21.9	23:2	22 5	21-3	23-7	3-2	0.3	0.1	0.1	16-1	0.04	0-2	0.4

APPEN

Annual Form No. III.-Deaths registered in the districts of Bihar

1	2					3			
No.	District.			P. pulation according to census, 1931.	January.	February.	March.	April.	May.
T	PATNA DIVISI	ON.							
		Curban		258,284	224	371	177	249	257
1	Patna District	Rural		1,588,190	2,037	1,965	2,188	2,868	2,771
		Total		1,846,474	2,281	2,136	2,365	3,117	3,028
		(Urban		105,185	192	173	223	243	248
2		Post		2,283,277	3,021	2 100	0:00	4102	
	Gaya District	Rural	***	2,000,211	3,021	3,189	3,18	4,103	4,571
	- 1	(Total	***	2,388,462	3,213	3,362	3,341	4,346	4,819
		Urban	***	117,630	42	48	50	57	61
3	Shahabad District	Rural		1,875,859	1,980	2,636	2,618	3,103	3,255
		Total		1,993,189	2,022	2,684	2,668	3,162	3,316
	TIRHUT DIVISI	ON.					18 19		
	111111111111111111111111111111111111111	(Urban	***	70,475	89	80	77	113	103
4	Saran District	Rural		2,415,993	3,511	3,499	3,434	3,885	4,143
		Total		2,486,468	3,600	3,579	3,511	892,8	4,246
		(Urban	***	45,486	67	74	72	53	88
5	Champaran District	Rural	+11.0	2,100,201	3,760	2,709	2,973	2,692	3,473
		Total	***	2,145,087	3,827	2,783	3,045	2,745	3,561
		Urban		82,241	93	91	115	133	120
6	Muzaffarpur District	Rural	***	2,838,784	4,682	4,295	4,934	6,052	6,570
		(Total	•••	2,911,025	4,775	4,386	5,049	6,155	6,690
		Urban	***	98,225	143	120	174	159	147
7	Darbhanga District	Raral	***	3,067,869	4,511	6,260	5,898	7,281	6,502
		(Total	***	3,166,094	4,654	6,380	6,072	7,440	6,649
	BHAGALPUR DIV	Tetov							
	BHAGALFUR DIV	(Urban		83,209	89	56	79	112	107
8	Monghyr District	Rural		2,203,945	9,947	2,938	3,280	4,004	3,988
		1		0.007.174					
		(Total		2,287,154 89,380	3,036	2,994	3,359	4,116	4,095
						74	117		
9	Bhagalpur District	Rural	200	2,145,552	5,048	5,358	4,946	5,783	5,121
	THE RESERVE	Total		2,234,632	5,145	5,432	5,063	5,897	5,257
		Urban	111	46,723	46	45	39	72	32
10	Purnea District	Rural		2,140,320	5,812	5,769	5,239	6,167	6,017
		Total		2,186,543	5,858	5,814	5,278	6,219	6,049
		(Urban		48,536	19	10	25	23	18
11	Sa: tal Parganas Pistrict	1		2,002,936	2,632	2,488	2,185	2,881	3,035
200									
		(Total		2,451,472	2,651	2,498	2,210	2,901	3,073

DIX I-contd.

Province, during each month of the year 1937-contd.

6	5				4			
No	Total deaths registered during the year.	December.	November.	October.	September.	August.	July.	June.
	ames .	110 67 (62						
)	3,236	297	328	246	250	294	320	323
	38,363	3,464	3,798	3,602	3,813	3,659	3,964	4,014
	41,599	3,761	4,126	4,148	4,063	3,953	4,284	4,337
1	3,517	315	350	342	396	414	310	311
1	61,365	5,588	5,668	6,477	6,730	6,965	6,263	5,672
-	Car marks	141	1-0	AMAY TO	PART .	- 270	0.1	* 000
,	64,882 798	5,903	6,018	6,819	7,126	7,379	6,573	5,983
	100				10			
1	45,108	4,823	4,313	4,826	4,975	5,097	3,585	3,892
)	45,906	4,896	4,380	4,911	5,051	5,173	3,664	3,979
14	Territory.	11111	1 100	(1000)				
1	1,272	149	97	112	95	112	107	138
}	48,270	4,892	4,222	4,090	4,232	4,032	4,478	3,852
3	49,543	5,041	4,319	4,202	4,327	4,146	4,585	3,990
3"	765	54	52	68	46	60	57	74
}	39,227	3,911	3,216	3,217	3,213	3,002	3,268	3,793
)	39,992	3,965	3,268	3,285	3,259	3,062	3,335	3,867
1	1,462	170	155	138	127	, 105	106	109
}	65,845	6,633	7,277	5,190	5,090	4,149	5,010	5,963
)	67,307	6,803	7,432	5,328	5,217	4,254	5,116	6,072
1	1,807	212	167	189	122	134	127	113
1	71,205	7,981	7,186	5,470	5,346	4,293	4,685	5,792
)	73,012	8,193	7,353	5,659	5,468	4,427	4,812	5,905
1	1,257	94	116	130	113	98	105	158
1	49,299	4,735	5,336	5,981	4,450	3,868	4,018	3,754
1	50,556	4,829	5,452	6,111	4,563	3,966	4,123	3,912
1	1,406	141	118	133	93	120	134	129
1	59,499	5,651	6,032	5,521	4,334	3,109	3,948	4,648
	60,905	5,792	6,150	5,654		3,229		4,777
ĥ	513	45	36	32	4,427	0,229	4,082	51
1	62,383	5,824	5,510	4,141	4,561	4,090	4,319	4,934
1	62,896	5,869						4.00*
1	227	10	5,546	4,173	4,610	4,122	4,353	4,985
1	34,098	2,723				1		
	-		2,934	2,819	3,080	3,131	3,098	3,072
j	34,325	2,733	2,950	2,833	3,099	3,148	3,114	3,107

APPEN

Annual Form No. III. - Deaths registered in the districts of Bihar

1	2					3			
No.	District			Population according to census, 1931.	January.	February.	March.	April.	May.
	CHOTA NAGPUB	DIVISION.		1		1	i	i	
		(Urban		50,857	23	81	41	42	31
12	Hazaribagh District	Rural		1,466,500	2,366	2,248	2,028	2,589	2,733
1	23 23	Total		1,517,357	2,399	2,279	2,069	2,631	2,766
		Urban	***	58,094	53	40	27	59	45
13	Ranchi District	Rural		1,509,055	1,761	2,181	2,351	2,400	2,757
1	1112	(Total		1,567,149	1,814	2,221	2,578	2,459	2,802
	SECO. LAKE	(Urban		12,040	2		6		12
14	Palamau District	Rural	***	806,696	1,578	1,583	1,609	1,844	1,701
3	0.30	Total	***	818,736	1,580	1,583	1,615	1,814	1,713
	207	[Urban		56,393	34	22	59	87	97
15	Manbhum District	Rural		1,754,497	2,511	2,478	2,452	2,627	2,782
1		Total		1,810,890	2,545	2,500	2,511	2,714	2,879
- 14	100 .	(Urban	***	30,697	68	37	47	84	66
16	Singhbhum District	Roral		899,105	1,168	1,121	1,175	1,146	1,329
	100	Total		929,802	1,224	1,158	1,222	1,230	1,395
	COLUMN TO THE REAL PROPERTY.	Urban		(a)1,336,393	1,289	1,672	1,328	1,600	1,571
	Total for the province	Rural		31,035,041	49,345	50,717	50,628	59,427	60,767
	01 14	Total		32,371,434	50,634	51,789	51,956	61,027	62,338
	May Dis	Urban			1:0	0.8	1.0	1.3	1.2
	Ratio per 1,000 of pop-	ula-{ Rural	***		1.6	1.6	16	1.9	2.0
	tion.	Total			1.6	1.6	1.6	1.9	1.9

⁽a) Including cantonment population.

DIX I-contd.

Province, during each month of the year 1937-concld.

land.	3						4	5
June.	July.	August.	September.	October.	November.	December.	Total deaths registered during the year.	N
41	89	47	40	41	41	45	475	1
2,967	2,751	3,287	2,763	3,043	2,932	2,887	32,843	1
3,008	2,790	3,284	2,803	3,084	2,973	2,932	83,018)
56	69	78	40	61	12	28	568	1
2,709	2,664	4,016	3,821	3,298	3,017	2,293	33,468	1
2,765	2,733	4,094	3,861	3,359	3,029	2,821	34,036)
6	7	4	12	10	3	7	69	h
2,304	1,821	2,869	2,287	2,230	2,353	2,149	23,828	1
2,310	1,828	2,373	2,299	2,240	2,856	2,156	23,897)
65	60	82	52	45	47	81	731	1
2,605	2,496	2,891	2,770	2,658	2,162	2,574	31,006	1
2,670	2,556	2,973	2,822	2,703	2,209	2,655	31,737)
64	56	56	53	56	41	48	674	1
1,021	1,294	1,489	1,271	1,258	1,403	1,495	15,170	1
1,085	1,350	1,545	1,324	1,314	1,444	1,543	15,844)
1,700	1,626	1,729	1,583	1,807	1,646	1,766	18,777	1
60,592	57,662	59,397	62,736	64,021	67,859	67,626	710,677	1
62,752	59,288	61,126	64,319	65,828	69,005	69,392	729,454	J
1.3	1.2	1.3	1.5	1.3	1.2	1.3	140	1
2-0	1.8	1.9	20	21	2.2	2 2	22-9	1
1-9	1.8	1.9	201	2.0	2.1	2-1	22.5	1

Annual Form No. 1V .- Deaths registered according to age in the

1	2										
No.	2 8			Deaths und							
				Not exceeding one month.							
	an Indian Second			edecroft or	Male,		Pemale.			and 6.	
	District.			Under one week,	one week.		Under one week.	Over one week.		Total of columns 3 and 6.	
	11 212	0		Unde	Over one	Total.	Unde	Over	Total.	Total	
	210,61	006.0	. 0	1	2	3	4	5	6	7	
	PATNA DIVISI	ON.	3	4.0	10.8	043	THE !	11111	10.0		
	100,70	110,11	- 9	0.5	50.6	19.1	AU .	The state of			
	10	Urban	***	107	36	143	98	45	143	286	
1	Patna district	{ Bural		1,415	986	2,401	1,199	693	1,892	4,293	
	- Unive	Total		1,522	1,022	2,544	1,297	728	2,035	4,579	
	- TIPE TO	Urban		174	67	241	116	52	168	40:	
2	Gaya district	Bural	***	3,807	1,117	4,434	2,677	1,007	3,684	8,106	
	111111	Total	***	3,481	1,184	4,665	2,793	1,059	3,852	8,51	
	(10)	(Urban		60	17	77	28	7	35	111	
3	Shahabad district	Rural	***	4,359	722	5,081	3,312	624	3,966	9,04	
	Um/I	Total		4,419	739	5,158	3,370	631	4,001	9,15	
	A trial			411					Call Call		
	- 1 60,611	903.3		11/2	18/37	PART 1			10013		
	TIRHUT DIV	1910N.		10.53		0000	1997				
	fivat .	101			191	93	00				
		Urban	***	52	26	78	28	24	52	130	
4	Saran district	Rural	***	1,842	925	2,767	1,359	698	2,057	4,82	
		(Total	***	1,894	951	2,845	1,387	722	2,109	4,95	
	BURE 6	Urban	**	26	4	30	17	5	22	55	
. 8	Champaran district	Bural	***	2,160	580	2,740	1,824	467	2,231	4,97	
		(Total	***	2,186	184	2,770	1,841	412	2,253	5,020	
		Urban	181	65	48	113	50	32	82	199	
6	Muzafferpur district	Rural	***	1,729	833	2,562	1,357	559	1,916	4,478	
		Total	***	1,794	881	2,675	1,407	591	1,998	4,67	
		Urban	***	70	30	100	33	25	58	15	
7	Darbhanga district	Rural	***	1,805	525	2,330	1,455	403	1,858	4,18	
		(Total	***	1,875	555	2,430	1,488	498	1,916	4,34	
		AMIOTAN			1						
	BHAGALPUR I	MVISION.			1						
		(17.)								100	
		Urban	181	53	26	79	36	20	56	- 13	
8	Monghyr district	Rural	***	1,367	819	2,186	1,264	663	1,927	4,11	
		(Total	-10	1,420	845	2,265	1,300	688	1,983	4,24	
		Urban	- 101	43	39	75	28	35	63	13	
9	Bhagalpur district	Rural	***	1,292	543	1,835	1,046	459	1,505	3,34	
		(Total	***	1,335	575	1,910	1,074	494	1,568	3,47	
	Donne Matalat	Urban	444	14	7	21	8	6	1 544	3,38	
10	Purnea district	Rural		1,315	588	1,843	1,094	450	1,544	3,42	
		[Total	***	1,329	535	1,864	1,102	456	1,558	3,42	
		Urban	***	9	1	10	4	2 010	6	1,88	
11	Santal Parganas distric		***		263	1,189	534	212	746	100	
	Barrier State of the State of t	(Total	400	885	264	1,149	588	214	752	1,90	

Over one n	nonth and not months.	exceeding six	Over six mos	oths and not exce months.	eding twelve			Total.	No
Male.	Pemale.	Total	Male	Pomsie.	Total,	Total male columns 3, 8 and 11.	Total female columns 6, 9 and 12.		
8	g	10	n	13	13	14	15		
						1	F		
							Sarvin mesan	ON VACALO	
110	97	207	92	90	182	345	330	675	h
2,039	1,628	3,667	1,278	1,281	2,509	5,718	4,751	10,479	1
2,149	1,725	3,874	1,370	1,321	2,691	6,063	5,081	11,144	1
164	115	279	89	80	169	491	363	857	1
2,711	2,251	4,963	1,952	1,810	3.762	9,087	7,745	16,832	1
2,875	2,366	5,241	2,041	1,890	3,931	9,:81	8,106	17,689	1
15	16	(3)	27	27	54	119	78	197	1
1,680	1,419	3,099	1,475	1,172	2,647	8,236	6,557	14,793	1
1,695	1,435	3,130	1,502	1,199	2,701	8,853	6,635	14,990	P
B .	10							ALTONO THE REAL PROPERTY.	l
	124		301						ı
103	ret T	95	911	100					
36	28	64	27	33	eo	141	113	254	1
1,301	974	2,275	1,055	831	1,886	5,123	3,862	8,985	13
1,337	1,002	2,339	1,082	864	1,946	5,264	3,975	9,239	1
21	12	33	12	9	21	63	43	106	1
1,137	945	2,082	731	509	1,240	4,608	3,685	8,293	17
1,158	957	2,115	743	518	1,261	4,671	3,728	8,899	1)
46	58	104	25	33	58	184	173	357	1
1,384	1,218	2,663	864	776	1,592	4,812	3,860	8,672	1
1,430	1,276	2,706	891	759	1,650	4,996	4,033	9,019	P
44	- 44	88	30	18	48	174	120	294	1
1,280	1,128	2,44.8	799	635	1,434	4,409	3,621	8,030	1
1,324	1,172	2,496	829	653	1,482	4,583	3,741	8,324	P
		-							1
	-		40		90	161	123	284	1
40	23	63	1.009	969	86 2,008	4,717	4,244	8,161	11
1,492	3,348	2,840 2,903	1,039	1,013	2,005	4,878	4,367	9,245	11
1,532	1,371	2,9/3	41	36	77	158	142	300	5
1,065	844	1,909	785	773	1,559	3,686	3,122	6,808	1
1,107	887	1,994	827	809	1,636	3,844	3,264	7,108	1
1,107	14	26	12	8	20	45	36	81	1
1,844	1,510	3,354	793	690	1,483	4,490	3,744	8,924	1
1,856	1,524	3,380	805	698	1,503	4,525	3,780	8,305	j
7	1	8	8	3	11	25	10	35	1
657	539	1,196	463	362	765	2,199	1,647	3,846	1
		1,204	411	365	776	2,224	1,657	3,891	1

APPEN

Annual Form No. IV .- Deaths registered according to age in the

-	2							
-		1						Deaths unde
				Not ex	ceeding one mo	nth.	Water of the second	100000
			Male.			Female.		nd 6.
0.	District.	Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.	Total of columns 3 and 6,
		1	2	3	4	5	6	7
	CHOTA NAGPUR DIVISION.							
	Urban		9 1	10	4	6	10	2
12	Hazaribegh district Bural	99	9 445	1,384	702	368	1,070	2,45
	Total	93	8 456	1,394	706	374	1,080	2,4
					9013		1141	
	Urban	1	11	25	13	3	16	0.00
13	Ranchi district Bural	90	0 481	1,381	703	569	1,072	2,43
	(Total	91	493	1,406	716	872	1,088	2,46
1		2.0		DE TRE	1			
	Urban		6	4	2	2	4	
14	Palaman district { Rural	97		1,418	766	867	1,188	2,5
	Total	98	3 434	1,417	768	369	1,137	2,51
-								
15	Urban	3	100	40	20	6	26	mas.
15	Manbhum district { Rural	76	Sie State	1,092	528	255	783	1,8
	Total	78	0 352	1,132	548	261	809	1,9
	(Urban	1	5 5	20	11	5	16	111.13
16	Singhbhum district Rural	52	8 139	467	238	125	363	8
	Total	34	3 144	487	249	130	379	8
	(Urban	74	7 319	1,066	496	975	791	10
	Total for the Province Bural	04.04		35,045	20,088	7,659	27,747	1,8
	Total	00.00		86,111	20,584	7,934	28,518	64,61
	Total population for the province	20,09			1			-
	Ratio per 1,000 of population			10		1032	The same of	3122

districts of Bihar Province, during the year 1937-contd.

-		8							
ne year.	THE W	on the sugar of	min her	manual .	Lyon and water				
Over one n	nonth and not e	exceeding six	Over six mo	onths and not exemple months.	eeding twelve		minea		1
400						Total male columns 3, 8 and 11.	Total female columns 6, 9 and 12.	Total.	
Male.	Female.	Total.	Male.	Female.	Total.				1
8	9	10	11	12	13	14	15	16	T
101				ar tai	101				1
- 43	La la	CA.		11 100	luni.	Levell .	- 40	dittante la	ı
22	14	36	13	10	23	45	34	79	1
928	821	1,749	409	389	798	2,721	2,280	5,001	1
950	835	1,785	422	893	821	2,766	2,314	5,080	1
1	1100	700		100 I 100 I	349	1		Section action 18	1
14	9	23	7	4	11	46	29	75	I
853	686	1,539	379	319	698	2,613	2,077	4,690	1
867	695	1,562	386	323	709	2,659	2,106	4,765	ŀ
				Office of the	144.4	LUIT.			ı
1	2	8	6	5	11	11	11	22	4
710	619	1,329	475	418	893	2,598	2,170	4,768	1
711	621	1,332	481	423	904	2,609	2,181	4,790	ì
17	14	31	18	10	28	75	50	125	
721	422	1,143	269	226	495	2,082	1,431	3,513	1
738	436	1,174	287	236	523	2,157	1,481	3,638	1
	0.0		100	DAY HE	201	Lutoff			1
15	13	28	15	15	30	50	44	94	1
291	264	535 583	221 236	202	423 453	979	829	1,808 1,902	ч
306	211	983	200	217	453	1,029	873	2,002	1
606	503	1,109	464	425	889	2,136	1,699	8,835	1
20,093	16,616	36,709	12,930	11,262	24,192	68,068	55,625	123,693	-1
20,699	17,119	37,818	13,394	11,687	25,081	70,204	57,324	127,528	
***		100	***			389,476	396,266	785,742	1

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9 D P.H.

144.6

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162-3

Annual Form No. IV .- Deaths registered according to age in the

1	1				3		•		5		6
	Die	riot.		1 year at 5 ye			and under ears.	10 years : 15 y	and under		and under
No.	Dia	.1106.						1	1	1	1
	THOS SALE			Male.	Female.	Male.	Female.	Male.	Fomale.	Male.	Female.
	1			17	18	19	20	21	22	23	24
-	PATNA D	IVISION		1			1		1		
	laina D			200	188	103	112	97	93	107	127
1	Patna district	{Urban Bural	***	4,534	4,494	780	727	423	398	365	423
1	and director	Total		4,734	4,680	883	839	519	491	472	550
	a cura	(Urban		348	288	88	85	41	48	58	83
3	Gaya district	Rural	***	7,658	7,776	1,596	1,414	806	635	641	623
		Total		8,206	8,064	1,684	1,499	847	703	699	706
		(Urban	25	66	74	17	18	13	15	13	19
8	Shahabad district	{Bural		4,458	4,493	780	690	420	321	446	458
		Total		4,524	4,567	797	708	433	336	459	477
	TIRHUT DIV	VOISION		11:	10				1 3	2	
	limiter bit	(Urban		104	71	17	20	14	5	20	18
4	Saran district	{Rural		4,689	3,951	1,222	1,094	740	731	836	718
		Total		4,798	4,022	1,239	1,114	754	736	856	736
	3 100.0	(Urban		75	70	24	18	28	18	23	16
5	Champaran district	{ Bural		3,757	3,236	1,017	787	578	357	614	446
		Total	***	3,832	3,306	1,041	805	606	375	637	462
	at en	(Urban		134	102	53	35	33	17	34	81
6	Muzaffarpur district	Rural		6,861	6,410	2,474	2,086	1,372	982	1,196	942
	10 TOS. T	[Total		6,995	6,512	2,527	2,121	1,405	999	1,230	973
	201 00.01	(Urban		149	128	77	61	54	30	37	30
7	Darbhanga district	{ Rural		7,159	6,445	3,139	2,496	1,744	1,105	1,449	1,178
	AND DESCRIPTION OF THE PARTY OF	Total	***	7,308	6,573	3,216	2,557	1,798	1,135	1,486	1,208
	BHAGALPUR	DIVISION.					1111				
	(A (F. e)	Urban	***	160	134	35	28	26	20	25	40
8	Monghyr district	{ Rural	***	6,381	6,218 6,352	1,448	1,254	690	591	651 678	570 610
		(Total		6,541	0,002	1,483	1,282	716	611		
		Urban	***	128	117	32	28	40	29	29	24
9	Bhagalpur district	Rural	***	5,895 6,023	5,841 5,658	2,448 2,480	1,985 2,013	1,538	1,089	1,297	1,120
		(Total	***						1,118		
		Urban		31	32	23	11	14	6	12	23
10	Purnea district	Bural		6,178	5,693 5,725	2,709	2,001	1,459	911 917	1,321	1,221
			***				-				
	0.110	Urban		3,355	2,799	1,598	1,287	4	735	1,032	928
11	Santal Perganas distri	et Bural		3,335	2,819	1,608	1,292	937	738	1,032	930
				1	-,	-		-			

districts of Bihar Province, during the year 1987-contd.

Г	(OAPA	7	8	3		9		10		11	12
										1	1
-	20 years 30 ;	and under years.	30 years a 40 ye	and under	40 years a	and under	50 years : 60 y	and under	60 yes	erds.	
_	September 1	market.		9 100	Mary Mary						No.
									1		
				é				ė			1
	Male.	Female.	Male.	Female.	Male.	Pemale.	Male.	Fomale	Male.	Pemale.	
-	25	26	27	28	29	30	81	32	33	84	
-	11	=					[12 J		1		T
	171	146	159	135	119	106	109	108	251	232	6
1	967	1,1:8	963	1,011	1,020	850	1,384	1,297	3,380	3,751	1
1	1,138	1,274	1,122	1,146	1,139	956	1,493	1,405	3,631	3,983	1
-	139	174	138	122	144	93	138	94	282	298	1
	1,837	2,230	1,826	1,784	1,809	1,445	2,099	1,807	3,973	4,354	2
1	1,976	2,404	1,964	1,906	1,953	1,537	2,237	1,901	4,255	4,652	,
1	37	31	22	24	29	16	33	20	70	77	1
1	1,371	1,834	1,354	1,403	1,321	1,063	1,299	1,806	3,140	4,168	3
	1,408	1,855	1,383	1,427	1,350	1,079	1,333	1,326	3,210	4,245	1
1						Ten so		Town I			
	49	60	64	69	41	32	34	31	206	163	1
1	2,057	1,994	1,967	1,830	1,853	1,382	1,872	1,733	5,270	5,347	1
	2,106	2,054	2,031	1,899	1,893	1,414	1,906	1,764	5,476	5,510)
	44	41	70	35	39	16	38	23	44	37	1
1	1,898	1,761	2,069	1,615	2,156	1,614	2,123	1,880	2,552	2,474	5
	1,942	1,802	2,139	1,650	2,195	1,630	2,161	1,903	2,596	2,511)
	77	78	82	43	64	38	64	35	89	96	1
-	3,253	2,658	3,405	2,664	3,233	2,621	3,52)	3,252	4,718	5,526	6
	3,330	2,736	3,487	2,707	3,297	2,659	3,584	3,257	4,807	5,622)
	108	110	161	72	95	58	82	55	103	103	1
	4,048	8,392	4,149	3,290	3,763	2,929	3,641	3,458	4,626	5,162	7
	4,156	3,502	4,310	3,362	3,857	2,967	3,723	3,513	4,732	5,265	J
	44	67	27	40	58	21	30	15	93	120	1
	1,716	1,694	1,764	1,542	1,926	1,389	2,248	2,121	3,952	4,183	8
	1,760	1,751	1,791	1,582	1,984	1,410	2,278	2,136	4,045	4,303	J
	84	65	75	44	70	29	51	58	130	73	1
	3,159	3,178	3,419	3,078	3,054	2,530	2,813	2,535	3,998	3,998	9
	3,243	3,243	3,534	3,122	3,124	2,559	2,864	2,593	4,104	4,071)
	43	23	38	38	27	16	19	17	24	35)
	3,560	4,255	3,738	3,494	3,576	2,573	2,848	2,280	3,397	195000	-10
	3,603	6,278	3,776	3,532	3,603	2,589	2,867	2,297	3,421	2,980	J
	10	12	14	5	15	6	15	7	22	19	-
-	1,946	1,920	1,967	1,565	1,802	1,290	1,705	1,437	2,049	1,900	10000
1	1,956	1,932	1,981	1,570]	1,817	1,296	1,720	1,444	2,071	11,919	J

Annual Form No. IV .- Deaths registered according to age in the

1	2			3		4		5		(,
	The street the	wites		1 year and 5 year	under	5 years an 10 yea	d under	10 years at		15 years a	
No.	District.		1	1		1	1	1	i		
					le.		de.		le.		
		11		Male.	Female.	Male.	Fomale.	Male.	Pemale	Male.	Female.
				17	18	19	20	21	22	23	24
1	CHOTA NAGPUB DI	IVISION.		ele	0(1	111	1	111			11
		(Urban		49	48	19	13	14	18	8	
12	Hazaribagh district	Bural		3,899	3,523	1,467	1,313	738	658	615	56
		(Total	***	3,948	3,571	1,506	1,326	753	676	623	. 51
		CUrban		60	40	17	18	20	12	13	. 1
13	Ranchi district	Rural		4,111	3,583	1,206	947	721	602	719	73
		Total		4,171	3,623	1,223	965	741	614	732	74
113		Urban	***	12	6	3	1	2	1	- 4	
1,4	Palamau district	. Rural	***	3,533	3,281	920	774	411	334	391	38
13	0.00	Total		3,545	3,287	923	775	413	335	395	35
	1000	(Urban	***	68	36	20	20	19	11	26	1
15	Manbhum district	. Rural		2,596	2,150	1,200	1,085	893	617	1,172	90
	2 200	LTotal		2,664	2,186	1,220	1,105	912	628	1,196	94
	LA MILA	Urban		43	87	9	13	14	16	18	1
16	Singhbhum district	Rural		1,935	1,573	759	674	404	313	387	36
		[Total		1,977	1,610	768	687	418	329	405	40
	14	[Urban	***	1,645	1,389	547	496	433	342	429	45
	Total for the Province	Rural		77,199	71,166	24,783	20,614	13,873	10,399	13,133	11,61
		Total		78,844	72,555	25,330	21,100	14.306	10,741	13,561	12,09
	Total population for the p	rovisce		1,996,280	2,110,112	2,330,522	2,129,096	2,005,728	1,767,032	1,322,530	1,361,55
	Ratio per 1,000 of popular	tion		39.5	34.4	10-9	99	7-1	6.1	10-2	81

DIX I-contd.

districts of Bihar Province during the year 1937-concld.

-	7		8	9		10		1	1	1
20 years 30 y	and under	30 years a 40 y	nd under	40 years at 50 ye	ad under	50 years an 60 yea	d under	60 yea	rs and ards.	
Male.	Femalo.	Male.	Female.	Malo.	Female.	Male.	Pemale.	Malo,	Female.	1
25	26	27	28	92	20	31	32	33	34	1
23	21	21	18	16	13	20	23	40	26	1
1,426	1,499	1,505	1,236	1,463	1.097	1,629	1,516	1,656	1,715	1
1,449	1,520	1,526	1,254	1,479	1.110	1,649	1,5%8	1,696	1,741	
30	35	38	16	35	30	40	14	41	37	1
1,481	1,692	1,545	1,210	1,490	1,141	1,916	1,089	1,984	2,008	1
1,511	1,727	1,583	1,226	1,529	1,151	1,936	1,703	2,025	2,045	1
5	3	2	1	1	1	1	1	1	1	1
946	1,046	943	871	589	785	163	822	828	907	1
951	1,049	945	872	590	786	892	823	829	908	1
43	51	31	20	56	23		25	51	50	1
1,856	1,768	1,940	1,407	1,661	1,077	1,815	1,304	2,143	1.880	1}
1,898	1,819	1,971	1,427	1,717	1,100	1,855	1,329	2,194	1,930	1
58	54	76	23	64	23	40	14	22	13	1
680	516	804	136	725	457	208	653	759	935	1
738	609	880	559	789	480	806	067	701	968)
964	961	1,025	705	877	.500	754	539	1,479	1,280	1
32,301	32,654	33,328	28,536	31,839	24,243	32,569	29,000	48,404	51,273	1
23,165	33,615	34,423	29,241	32,716	24,743	33,323	29,629	49,888	52,653	3
763,852	2,894,276	2,341,958	2,814,501	1,595,753	1,513,295	904,760	913,225	204,549	527,186	
12:0	11.6	14.7	12.6	20-5	16:3	36°S	32-4	83.9	73:4	

'Annual form No. IVA .- Deaths under one year registered according to class in each town and

	1				3			3	
	Registering circle	٠.	i		Christians,			Hindus.	
lane.	_	100		Male.	Female.	Total.	Male.	Female.	Total.
	PATNA.		i						
Patns town							154	132	286
Bihar town							47	48	95
Dinapur Nizar	mat						23	38	51
Dinapur Cant	enment						25	32	57
Barh town							19	9	28
Khagole town	***						18	19	. 37
	Total of to	wns			***		256	268	554
	Total of re	ural					5,492	4,557	10,049
	Total of dist	rict					5,778	4,825	10,603
	GATA.								
Gaya town							349	260	608
Tikari town	***	***					10	8	18
Daudnagar to	wn						32	25	57
	Total of to	wns					390	293	683
	Tctal of ru	ral					8,424	7,272	15,690
	Total of dist	riot					8,814	7,565	16,375
	SHAHABAD.								
Arrah town]			***	23	12	3
Baxar town							29	25	5
Dumraon tow	n						5	2	- 2
Jagadispar to	wn	***					10	4	1
Sasaram town	ı						27	21	4
Bhabua town			***		***		7	4	1
	Total of to	wns					101	68	16
	Total of r				1	1	7,916	6,269	14,18
	Total of dis	trict			1	1	5,017	6,337	14,35

DIX I-contd.

rural areas in the districts of Bihar Province during the year 1937-contd.

	•				30.00					7	
	Muhammadans			Bodd blete			Other classes	e.		Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total,
38	46	84							192	178	370
6	7 2	13							53	5.5	108
5	3	7							28	30	6
2	3	5					***		21	12	3:
4	1	5							22	20	4
59	62	121							345	330	671
226	191	420							5,718	4,751	17,46
295	256	541							6,063	5 081	11,144
94	e1	155					;		412	321	76
1	3	4							11	11	2:
9	6	15							41	31	7:
104	70	174				***			491	3∈3	85
663	473	1,136							9,087	7,745	16,83
767	513	1,310							9,581	8,108	17,68
3	1	4							26	13	3:
6	1	7							35	26	6
						T,	"		Б	2	
4	2	6							14	. 6	21
5	4	. 9							32	25	5
	2	2							7	6	1
-	101									- 10	1116
13	10	28							119.	78	19
320	287	607	-			-			8,236	6,557	14,79
333	297	635							8,335	6,635	11,99

'Annual form No. IVA .- Deaths under one year registered according to class in each town and

	1			0.050R	,	and have	3 . "	3	
	Registering	elrele.		a levi tou	Christians,		and 1	Hindus.	
Jan 1	and I	-		Male,	Female.	Total.	Male.	Female.	Total.
	SARAN.								
Chapra town			**,				82	61	145
Revelganj tow	wn						18	20	38
Siwan town							20	14	. 3:
	Total of t	towns					120	95	210
	Total of						4, 77	3,050	7,122
	Total of di	istrict					4,197	3,145	7,341
	CHAMPARA	N.							
Fettish town		***		2	2	4	27	21	41
Motibari tow	n						16	9	20
	Tetal of	towns		2	2	4	43	30	7:
	Total of	rursl		2	3	5	4,010	3,193	7,20
	Total of di	istrict		4	5	9	4,053	3,283	7,27
	MUZAFFA	RPUR,						8-1	
Muraffarpur						***	59	34	11:
Sitamarhi to	wn						20	22	4
Hajipur town		***					43	33	71
Lalgonj town		***			***		20	22	4
m-t-	al of towns						148	135	28
	al of rural				1	2	4,011	3,224	7,23
100	11 01 14(8)	***							
Tots	al of district			1	1	2	4,159	3,°59	7,51
	DARBHAN	.01.						7	45
Darbhanga t							114	88	- 20
Resemb town							9	7	1
Samastipur to				***			15	11	2
Madhubani t							32	13	4
1 100	Lang I					-		- 110	6.0
	al of towns						170	119	28
Tota	al of rural						3,419	2,855	6,27
							- 1	200	-
Tota	al of district			•••			3,589	2,674	6,56

DIX I-contd.

tural areas in the districts of Bihar Province during the year 1937-contd

	•			5	-		•			7;	
1	duhammadans.		1	Buddhists.			Other classes		140	Total.	
Male.	Female.	Total,	Male,	Female.	Total.	Male.	Pemale.	Total.	Male.	Female,	Total.
(5)	14		-								111(1)
20	14	34			•				102	75	17
1	2	2							18	22	4
lile 1	2	3							21	16	3
21	18	89				***			141	113	25
1,016	812	1,858				***			5,123	3,862	8,98
1,067	830	1,897	1						5,284	3,975	9,23
										11 TO 1 TO 2	199
15	7	22							44	30	7
3		7		-			-		19	13	3
18	11	29							63	43	10
596	489	1,685							4,608	3,685	8,29
614	500	1,114	j						4,17.	3,728	8,39
			-		20000					14010	ASP TO
20	19	30							79	78	15
3	6	9							23	28	
9	11	20							52	44	8
4	2	6							30	18	- 1
36	84	74							184	173	86
800	635	1,435							4,812	3,960	8,67
886	673	1,509							4,996	4 033	9,05
-											
4	1	5							118	89	, 20
									9	7	1
									15 32	11	2
4	1	5							174	120	29
990	766	1,756							4,409	3,621	8,03
994	767	1,761		-					4,583	8,741	8,52

'Annual form No. IVA .- Deaths under one year according to class in each town and

1				9			3	
				Christians.			Hindus,	
Registering c	irele.							
Acres Acres			Male,	Female,	Tetal.	Male.	Female.	Total
Mosgay	В							
Monghyr town						75	54	120
Jamalpur town						48	42	9
Total of towns						123	96	219
Total of rural	***					3,708	3,430	7,13
Total of district						3,831	3,526	7,35
BHAGALT	DE.	1						0.0.5
Bhagalpur town	***					125	122	24
Colgong town						20	12	31
Total of towns						115	184	271
Total of rural						3,142	2,646	5,78
Total of district						3,287	2,780	6,06
PURN	EA.							
Purnea town						11	12	2
Kishenganj town						7	4	1
Katihar town	.,,					4	7	1
Forbesganj town	1					10	5	10
Total of towns						32	30	65
Total of rural	***					2,757	2,293	5,056
Total of district						2,789	2,323	5,113
SANTAL PAR		1					-	9
Salibganj town	***					4	3	
Deoghar town						10	2	15
Damka town						5	1	- 00
Madhupur town	0.444					5	2	0.00
Total of towns						24	8	35
Total of reral	***			1	1	1,523	1,190	2,813
Total of distric				1	1	1,547	1,198	2,848
HAZABIRA	он-							
Hazaribagh tewn				***		10	12	25
Chatra "						21	9	80
Giridih "						8	9	17
		-						
Total of towns	***				-	39	30	69
Total of rural			1	1	2	2,437	2,027	4,464
		-						
Total of district			1	1	2	2,476	2,037	4,533

DIX I-contd.

rural areas in the districts of Bihar Province during the year 1937-contd.

	4			-	1		6			7	
3	luhammadaes.		В	oddhiets.			Other classes.			Total.	
Male,	Female.	Total.	Male,	Female.	Total.	Male.	Female,	Total.	Male,	Female.	Total.
1									-1	5000	
26	13	39							101	67	168
12	14	26							60	56	116
88	27	65							161	123	284
1,009	814	1,828							4,717	4,244	8,961
1,047	841	1,888							4,878	4,367	9,345
						185	1300	-	111	mirror ball	N. Y.
12	8	20							139	130	267
1		1		140		***			21	12	33
13	8	21							158	142	300
544	476	1,020							3,686	3,122	6,808
	404	2041							3,844	9.004	477
507	484	1,041							0,044	3,264	7,180
3	4	7							14	16	30
6	1	7							18	5	18
2	1	3	7						6	10	16
2		2	·						12	5	12
18	6	19							45	36	81
1,723	1,451	3,174							4,483	3,741	8,22
1,736	1,457	3,193							4,525	3,780	8,300
							2	2	4	5	
	***								10	2	1
									5	1 2	
1		1		***	***				6		
1		1					2	2	25	10	3
62	45	107				514	411	925	2,199	1,647	3,84
63	45	108				514	413	927	2,224	1,657	3,88
4		4							14	12	2
2	2	4							23	11	3
	2	2							8	11	1
6	4	10							45	34	7
280	246	526			-	3	6	9	2,721	2,280	5,00
286	250	536		-		3	6	9	2,766	2,314	5,08

'Annual form No. IVA .- Deaths under one year registered according to class in each town and

	1				2			3	
	Last			mental	Christians.		47-47-4	Hindus.	
	Registering cir	ele.					Male,	Female.	Total.
200T	the state of			Male.	Female.	Total.	Male.	Pediale.	10111.
	RANCHI.								
Ranchi town				7	4	11	20	10	30
Lohardaga "	· · ·	•••		4	1	5	6	4	10
Tota	l of towns			11	5	16	26	14	40
Tota	l of rural			573	399	972	976	704	1,680
			-						
Tota	l of district			594	404	983	1,002	718	1,720
			-						
	PALIMAU	1.					-		
Daltonganj to	wn						10	9	19
			-					-	
Tota	l of rural			15	15	30	2,417	2,016	4,433
Tota	al of district			15	15	30	2,427	2,025	4,452
	MANBHUI	м.							1
Purulia town							32	15	47
Raghunathpe	ir town						24	13	37
Jhalda town							8	8	16
Dhanbad tow	n						12	14	36
Tot	al of towns						74	48	125
Tot	al of rural						1,998		3,335
			-						5,00
Tot	al of district		8.00				2,069	1,385	3,45
			***				2,000	2,000	0,40
	SINGHBHI								
Chaibassa to							11	1 14	
Chakradharp		***					-	10	
Jugsalai tow				1		-	7- 3		
Jamshedpur		***	***						
* amaneupur	town			1	1		2 1:	3 7	2
To	tal of towns								
10	or towns		***	2	1		3	9 36	7
m-	tal of rural			10			0		
40	or or rurar			10	.6	1	6 60	5 494	1,09
To	tal of distric	t		12	7	1	9 64	4 530	1,17
To	Provintal of towns	nce.		15	8	2	3 1,77	0 1,418	3,18
To	tal of rural			602	427	1,02	9 57,00	9 48,657	103,56
To	otal of distric	ts	***	617	435		_		

DIX I-contd.

rural areas in the districts of Bihar Province during the year 1937-concld.

				5			6			7	
3	fohamwadans.		1	Buddhista			Other classes.			Total.	
Male,	Female.	Total,	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female,	Total.
5 1	3	9				1 2	1 2	2 4	33 13	19	2
6	7	13				3	3	6	40	29	7
194	124	318				870	850	1,720	2,613	2,077	4,69
200	131	331				873	853	1,726	2,659	2,106	4,76
							4 1		- 11		
1	2	3							11	11	2
166	139	305							2,598	2,170	4,70
167	141	308							2,000	2,181	4,75
-							n ka				
			""			-			32 24	15	
									6	6	
1	2	3							13	16	
1	2	3							75	50	1
58	61	119				29	33	62	2,082	1,431	3,5
69	63	122				29	33	62	2,157	1,481	3,6
1		1					3	3	15	17	
2	1	3							9	6	
2	2	4					1	1	16	11	
. 9	3	12					4	4	50	44	
5	8	13				359	321	650	979	829	1,8
14	11	25				359	325	684	1,029	873	1,5
348	269	617				3	9	12	2,136	1,699	3,8
8,682	7,020	15,702		1		1,775	1,621	3,396	68,068	55,625	123,6
9,030	7,289	16,319	***			1,778	1,630	3,468	70,204	57,324	127,5

Annual Form No. V .- Death's registered according to class in the

1	2								3							
	- 47				-	777	Nur	nber of d	leaths re	gistered.						
No.	District.	Chr	istians	.		Hindus.	-	Mul	ammada	ns.	Bu	ddhist	8,	Othe	er clas	8808.
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Fomalo,	Total.	Male.	Female.	Total.	Male.	Female.	Total.
	PATNA DIVISION.					- 1										
1	Patna		3	3	19,419	18,674	88,093	1,775	1,728	3,503			***			***
2	Gsya		2	2	30,232	28,623	58,855	3,162	2,813	6,014	3	1	4	5	2	1
3	Shahabad TIRHUT DIVISION.	1	2	3	21,857	21,412	43,260	1,393	1,241	2,634						
4	Saran				23,411	20,842	44,253	2,907	2,882	5,289						
5	Champaran	48	37	85	18,676	15,615	34,291	3,096	2,120	5,616				***		
6	Muzaffarpur	6	5	11	31,217	27,813	59,000	4,435	3,771	8,206						
7	Darbhauga	1		1	34,253	30,663	64,286	4,915	3,810	8,725						
	BHAGALPUR DIVI- SION.													18		
8	Monghyr	15	10	25	29,957	22,392	46,349	2,179	2,002	4,181				1		
9	Bhagalpur	8	3	11	28,966	26,120	55,086	3,145	2,662	5,807				1	***	
10	Purnea	4	14	18	29,370	18,112	38,482	13,147	11,223	24,370				21	5	2
11	Santal Parganas	51	37	83	10,027	8,502	18,189	1,405	1,095	2,500				7,245	5,963	13,1
	CHOTA NAGPUR DIVISION.		-													
12	Hazaribagh	7	11	18	15,622	14,116	29,788	1,648	1,331	3,029			·	117	116	23
13	Ranchi	2,474	2,154	4,628	6,216	5,405	11,621	610	522	1,132				8,830	7,825	16,6
14	Palamau	78	65	138	11,3:7	10,470	21,847	1042	870	1,912						
15	Manbhum	23	7	30	15,671	12,815	28,026	827	C44	1,471				1,263	947	2,21
16	Singhbhum	74	66	140	4,000	3,349	7,429	101	67	168				4,346	3,761	8,10
	Total for the Province	2,785	2,416	5,201	315,351	283,953	599,304	45,787	38,770	84,557	3	1	4	21,829	18,559	40,3

DIX I-contd.

districts of Bihar Province during the year 1937-contd.

							4				plug.				
					Ratio	of deaths ;	or 1,000 o	f popu	lation.						
	Christians			Hindus.		Muh	ammadan	1.	В	addbie	ta.	0	ther classes		No.
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total	
			11										100		
	1.8	0.8	22-7	23-7	23-2	17:5	17-0	17:2							1
	7.0	3.2	22:1	27.0	22-9	26.9	20.9	23.7	930-7	160.0	210.5	12 4	5:5	91	2
0.9	1.2	1.2	23-6	203	23.5	19-0	15-8	17:4							3
			21.8	18-8	2.3	19-6	14.7	11:1							4
28.5	18.7	28-2	20-7	17-6	19.2	176	16.1	15.8							5
12-5	12-3	12.4	248	21-6	23.4	24.0	18-3	21.0							6
3-5		1.9	25-3	21.9	23-6	22.8	16-9	19.8				***			7
										180					
14.2	11.6	13.0	23-2	22-0	22.6	19-9	16.8	183				0 2		0.1	8
9-1	4-4	7.0	28.8	26 7	27-8	25.1	31.4	23.2	100			0.2	***	0-2	9
41	16.4	9.0	30.6	29-2	29-9	28.8	26-1	27:5				3.0	0-8	2.0	10
7.8	5-3	6.2	21.8	18-8	19-5	124	9.8	11.2	in i			16.8	13:5	15.2	11
41	7.5	5:6	26.1	23-1	24.6	194	15-8	17-6				1.7	1.7	1.7	13
19:0	16-2	17.6	14'3	12.4	13.3	17.4	161	17-1				49.1	413	45.1	13
17:2	14.9	16 0	33-9	31-3	32-6	279	23.4	25.7				***	100		14
5.8	1.8	8-9	191	16:0	17-6	13'4	12-9	18-2				25.1	19:3	121	15
7:3	6.9	7-2	17:1	15.0	16.1	6.1	6.5	6.5				21.2	17:2	19-2	16
16.8	16'5	15-6	24:1	22.0	23-1	22:3	18.6	20.4	8.8	5.5	7-6	22:2	18-5	20-4	

Annual Form no. VA. - Death rates according to class, in urban and rural areas separately in each district of Birar province during the year 1937.

Number.		Distric	te.		Christians.	Hindus.	Muhammadara.	Beddhists.	Other classes.	Total.
1		2			3	4	5	6	7	8
1	Patna		{ Urban Rural		0·7	13-6 24-4	9-9 20-9			12·5 24·2
2	Gaya		{ Urban Rural	***	3.9	35·1 27 3	29·0 23·1	223.2	11·3 6·1	33·4 26·8
3	Shahabad		{Urban Rural		1.2	68 21:3	7°0 20°0			68
4	Saran		{Urban Rural	***		18·5 20·3	16:7 17:1			18·0 19·9
5	Champaran		{Urban Rural		9:0	15.8	16·3 15·8			16.8 18.7
6	Muzaffarpur		{ Urban Rural		26-8	18·7 23·4	15:2 21:3			17·8 23·0
7	Darbhanga		{Urban Rural		2-6	23.6	11·4 20·4			18'4 23'2
8	Monghyr		{Urban Bural		1:5	15·8 22·8	13 3 18 7		0-1	15·1 22·4
9	Bhagalpur		{Urban Rural		2.2	28.1	11·1 24·6		0.3	15-7 27-7
10	Purnea		{ Urban Rural		3:3	10·1 20·4	12 6 27 7		2.0	11·1 29·1
11	Santal Parga	nas	{Urban Rural		68	20.5	2·8 11·5		10·6 15·2	4·6 17·0
73	Hazaribagh		{Urban Raral		7:6	10·5 25·0	7·0 18·5		17	93
13	Ranchi	***	{ Urban Rural		17:9	13.4	19-7		2·3 45·5	9.7
14	Palamau	***	$ { $		16-3	33-0	3·8 26·4			29.5
15	Manbham	***	{Urban Rural		2-2	13-9	8-1		85·1 22·2	12-9
16	Singhbhum		{Urban Rural		4·5 8·2	18-2	117	***	3:3	16 3
	Total for the	e Province	{Urban Rural		8-2 16-2	16·1 23·4	123 21·1	99	5.8	14·0 22·9

02

STATEMENT No. VI.

21

9 D. P. H.

APPEN
Annual Form No. VI.—Death's registered from different causes in the

1	2			ion according to occess of 1931.			4			5		6	,	•	9	19	11
			Populatio	on according of 1931.	to orners		Births.		ВІ	irth rat	iee.						
No.	Districts and To	owns.	Male,	Female.	Total.	Male,	Female.	Total,	Male,	Female.	Total.	Cholera,	Small-por.	Plague.	Feren.	Dynatery and Clarrhon.	Bespiratory diseases.
	DISTRICTS I	INS.															
	Patra Divisi		811,800	778,390	1,588,190	83,019	81,120	63,139	20.3	19 6	39-8	1,141	609		28,612	804	1,02
1 2	Gaya		1,134,074	1,149,203	2,243,277	54,941	62,423	\$ 107,364	26'1	22.0	47.0	1,402	1,025		45,969	117	6
3	Shahabad		936,948	938,911	1,875,650	41,970	39,004	81,054	22'0	21.0	43'3	213	703	1	34,366	. 13	1
									3							7	
	Tianur Divisio																
4	Saran		1,181,847	1,234,146	2,415,993	40,681	44,743	91,424	19:3	18-5	37.8	240	753	1,085	27,777	201	6
5	Champaran		1,055,771	1,044,430	2,100,201	35,650	33,906	69,856	17.0	16.1	33-1	40	294	6	32,665	15	
•	Musaffarpur		1,897,930	1,460,854	2,858,784	48,453	46,280	94,733	16-0	16:3	33-1	1,433	258	971 43	63,163	290	
7	Darbhanga Bradatres D: stow,	171-	1,010,100	1,540,764	2,,0.0	49,238	41,602		100	10.2	01.2	,,,,,	200		60,100		ľ
	Monghye	-	1,101,578	1,109,869	2,909,945	41,779	89,995	81,774	1910	18-1	37-1	2,360	291		37,106	63	3
2	Bhagalpur		1,081,084	1,004,468	2,145,553	83,454	\$3,235	65,090	15.6	150	3016	2,608	881	8	50,998	59	1
10	Parnes	-	1,101,882	1,038,438	2,140,330	30,577	28,039	\$8,616	14.3	13-1	27.4	237	203	***	58,770	42 93	1
11	Santal Pargana CROTA NAGR		998,950	1,000,976	2,002,038	28,135	26,940	65,176	14.1	13.4	27-5	1.237	625		19,137	*3	21
-	Division.														-		
12	Hazaribagh		715,619	740,851	1,455,500	27,677	20,761	64,336	188	18-2	37.0	310	61	-	27,004	86	-
3	Ranchi		748,339	761,728	1,509,055	24,549	23,907	48,455	16-3	15.8	33.1	51	48		27,444	979	
4	Palamau		403,177	4/3,519	805,696	16,938	16,331	83,209	31.0	20.9	41'3	20	831		12,679	8	
5	Manbhum	-	909,615	845,512	1,754,497 815,367	25,688	10,821	49,966 22,469	13-5	13.7	28'4	146	141		27,054 13,445	71	1
	Singhbhum		401,278	414,099		11,633	70,021							_			-
	Total for the vince.	pro-	15,504,995	15,630,046	81,035,041	549,582	523,265	1,072,847	17-7	16:8	34.5	13,621	7,071	1,410	575,980	2,176	2,40
	TOWNS.																
	PATNA DISTRIC	OT.			2				177	3				77	799		
1	Faina City		90,236	67,452	109,090	1,931	1,158	2,760	7.7	71	14'8	53	10		857	310	
3	Bihar	***	24,533	22,472	40,994	368	370	738	7-8	7'9	15:7	8	10		133	20	
3	Dinspore		12,847	11,874	24,221	220	240	409	9-4	919	19:3	8	3		141	30	3
4	Barh		5,179	4,871	9,750	113	121	244	12'6	12'4	25.0	1	1		88	10	
8	Ehagols	***	4,119	3,293	7,412	93	71	163	12.4	9.5	21.9	3	2	780	78	6	
1	GAYA DESTRI	07.															
	Gaya	***	80,625	37,380	89,005	1,371	1,251	2,622	15'6	14:2	2018	75	28	***	1,952	123	1
	Tikari		20,697	2,794	5,491	126	122	246	23 6	22.3	44'8 *0-E		7	-	153	3	***
	Dandnagar	**	0,207	5,442	11,699	236	226	452	20.3	19.3	\$9-5	8	-		103		

DIX I-contd. The most hand hand hand and a find a fit of the most famous N

districts and towns of Bihar Province, during the year 1937-contd.

11		9) Dina		1															-
	1 -			13	170	18		14						,,,,,	15							14
			In	jaries.			Total de	eaths from	all causes.		tio of de	aths pe	r 1,000	of pop	ulation					1		
Sal	leide.		pala	1											1	1	1	_	From e	ll caus	es.	
Male,	Female,	Wounds or socidents,	Snake-bite or killed by wild animals.	Rables.	Total.	All other causes,	Male,	Fomale.	Total.	Cholera,	Smell-pox.	Plague.	Pavest.	Dysentery and diarrhosa,	Respiratory diseases.	Injuries.	All other causes,	Male,	Female.	Total,	Mean of previous five years,	No
63 43 34	94 58 52	178 223 190	233 283 154	5 29 2	672 634 441	10,7 3 17,152 9,458	19,633 81,633 23,635	18,830 29,833 22,283	28,363 61,365 45,108	0-7 0-8 0-1	0·3 0·4 0·3	 0*0005	14'8 20-1 18-2	0°5 0°05	0°6 0°08 0°068	0.03	67 53 50	24'6 27'8 24'3	24-2 26-1 23-7	24·2 26·8 26·0	31-7 8 24-0	1 2 3
80 23 10 19	130 13 16 25	277 123 389 627	456 312 521 568	12 3 11 12	955 472 947 1,251	16,591 5,725 5,429 4,788	25,628 21,972 34,644 36,129	22,642 17,615 31,001 83,076	40,270 39,297 65,845 71,205	0°09 0°01 0°6 0°4	0°3 0°1 0°03 0°08	614 01002 0109 0101	11-5 15-5 20-0 20-6	0:08 6:007 0:01 0:09	0°2 0°004 0°007 0°01	0°4 0°2 0°3	68 27 19 15	21'8 20'2 24'9 25'1	18 3 27-1 21-2 21-3	19 9 18 7 23 0 23 2	70 7 81*7 23*7 21*3	6 6 7
11 32 52 54	11 18 54 36	184 128 44 80	292 257 297 107	6 5 2	504 438 447 279	8,853 4,036 3,680 2,512	25,493 31,223 33,206 18,500	23,800 28,176 29,117 15,608	49,259 59,4 9 62,383 34,098	0°6 0°6	0·3 0·1 0·2	0°0002	16'8 23'7 27'4 14'5	0.08 0.02 0.02 0.04	0°01 0°000 0°007 0°1	0·2 0·2 0·1	4'0 3'3 1'3	23·1 28·9 30·2 18·6	21°6 26°4 28 0 15°4	22°4 27°7 29°1 17°0	23 8 23 6 24 5 19 3	9 10 11
57 33 21 52 20	65 33 21 21 24	130 155 74 229 36	14 195 93 92 95	3 3 6 2	350 417 213 400 167	3,954 4,478 3,075 2,476 1,150	1*,139 17,786 19,450 17,558 8,109	15,494 15,692 11,178 13,618 6,972	32,543 33,448 53,833 81,006 15,170	0°2 0°05 0°02 0°08 0°3	6°04 0°03 1°0 6°3 0°1	-	18'8 18 2 24'4 15'4 14 4	0°05 0°6 0°01 0°05	0°00 0°00 0°004 0°1	0°2 0°3 0°3 0°3	2:7 2:9 3:8 1:4 1:2	23-8 23-8 30-9 19-1 17-4	20°7 20°6 28°2 16°1 15°1	22°2 22°2 30°8 17°6 16°3	21:7 22:9 27:1 18:1 16:9	12 13 14 15
603	660	3,082	4,047	104	8,476	99,930	377,408	336,211	710,677	0.4	0.3	0.02	18.2	0.00	078	0.3	3-2	24-2	21'6	33.0	22-5	
	1 11 11	55	1		57	773	1,050	1,028	2,067	03	0.08		3.6	1.0	20	0-3	48	11'4	15-2	13-1	15-8	1
1	 1 	2 4 8 7	- 1 -		2 6 9	208 68 35 36	217 128 78 76	176 133 72 671	363 271 150 133	0°1 0°3 0°1 0°4	0°2 0°1 0°1 0°3		5.8 0.0 2.8	1'4 1'0 0'8	0.5	0°04 0°2 0°9 1°2	4'4 2'8 3'5 4'8	8°8 11°2 18°0 18°4	7-8 11-2 15-7 17-8	8°3 11°2 18°4 17°9	8:0 1::8 14:0 10:8	3 4 5
	1	80 8	 1	1 1 1	82 4	925 20 65	1,700 41 120	3,492 43 113	3,901 83 933	0.8	0°3 0°7 0°6	-	21·1 10·6 13.0	1'4 0'2 0'2	1.3	0.9	10°5 3°6 4°7	\$3·7 15·2 19·1	39-9 15-0 20-8	36 4 15 19-9	35°4 23°5 19°1	6 7 8

Annual Form No. VI .- Death's registered from different causes in the

1	3			lation according to consus of 1931.			•			5		6	7	8		10	11
			Population	according to	0 000000		Births.		B	irth ra	10.				er er		
٥.	Districts and ?	Towns.	Mato.	Female.	Total.	Male.	Penalo.	Total.	Male,	Female.	Total,	Cholera.	Small-por.	Playue.	Perors.	Dyentery and distribus.	Respiratory diseases.
1				1	1		1							1			08
	TOWNS-e														1		-
	TRICT.	DIR-															
9	Arrah		26,625	29,387	48,922	282	214	496	5:7	4.4	1	2	17		141		
10	Dumraon	-	7,400	6,619	13,419	170	170	347 £44	12:6	12-6	32.0	1	5		121	1	
12	Jagadispur		4,791	4,870	9,001	50	73	162	18:7	15.0	33.8		3		41		130
13	Sararam		19,473	12,703	25,175	279	264	543	33-3	9 1	43'5		16		170		***
14	Bhabhua		3,220	3,763	0,007	76	48	120	22'9	14-3	37:3				34	-	-
	SARAN DIST	BIOT.					19	WAL.					1111		Prop 1	10	100
15	Chapra		15,934	21,814	47,418	760	C52	1,412	18-0	13-7	207	11	30	2	259	1 11	1
16	Rerelganj		4,207	4,525	8,812	171	140	810	19-4	1619	36.3	13			50	85	12
7	Siwan		7,981	6,234	14,215	249	220	418	17*4	15.2	83.0	1	1	11	67	1	
	CHAMPABAN TRICT.	Dre-						79.00					-	13	-		71
18	Fettish		14,659	18,282	27,941	563	501	1,063	20'1	17-9	28.0		61	45	940	10	
19	Motthari		10,526	7,010	17,515	208	161	833	9.6	93	18.9		- 1	-	209	6	13
	MURAPPARPUS FRICT.	DIS-					1										
10	Muzeffarpur		25,050	17,909	43,045	507	418	975	11.8	10.8	22:6	18	2	1	233		7
n	Sitsmarhi		6,255	6,448	10,701	178	134	272	139	19-5	25'4				118	36	1
12	Hajipur		9,936	9,363	19,299	809	313	662	19-1	16-2	35.3	38	1	1	148	25	150
13	Danbhayoa	D18-	4,676	4,516	9,192	140	165	314	16:2	17-9	34'1			-	10	14	
14	Darbhanga		32,274	28,403	60,676	962	864	1 040	15-8	11.3	2000					2	100
15	Roserah	***	4,533	4.836	8,800	108	95	1,616	18'9	10.7	29-6	84	- 11		550 17	101	
85	Samastipar		6,101	3,790	9,691	144	100	274	14'6	13-1	27 7	3			80	4	
17	Madhubani	-	9,946	8,943	18,799	276	211	467	14-7	11-2	25-9	10	-		108	15	
	MONGRYS TRICT.	L18-															-
18	Morghyr	101	27,843	25,020	62,863	783	651	1,484	14'8	12:3	27:1	17	82		289	91	4
29	Jamelpur Burgatera TRIOT.	D18-	10,378	13,968	30,346	519	661	1,079	17-1	18-8	35-8	38	23	-	191	21	
80	Dhagalpur		44,808	36,079	63,847	635	799	1,634	9-9	9"5	10-4		1.	31-3	1	1	
83	100 100 000 000		2,632	2,001	5,233	88	87	145	16.8	10-9	27.7	10	17	-	73	87	300
	PURES DIST	100	12 19	02 104	101	- 3	100	1	1				The same	***	1	3	
13		-			-			1			-				Land of		
33	Kishanganj		9,255 5,817	3,129	15,474 8,946	113	65	180	1.8	7-2	13.8	7	1		195	34	
34	Katthar		9,014	6,650	15,1-64	63	5.5	141	5.2	3.7	3.0		1	-	51	- 1	
35	Forbesgan)	***	3,713	2,220	5,900	81	61	143	13.6	10.3	21-0				78	10	

DIX I-contd.

districts and towns of Bihar Province, during the year 1937-contd.

1	0.00	-	11	2007		13		15							14			1				16
-		Is	Jaries.				Tota	deaths fro	mall			R	atio of de	aths p	or 1,2x0	of pop	ulation	ò.			1	-
Sui	eide.		wild animals															,	rom al	l eause		
Male.	Female.	Wounds or accidents.	Snake-bite or killed by wi	Rabies.	Total.	All other carses,	Male.	F emale,	Total,	Cholera.	Small-por.	Plague.	Ferens.	Pysentery and diarrhes.	Respiratory diseasor.	Injuries.	All other causes.	Male.	Ferale.	Total.	Mean of previous five years.	No.
The same			THE REAL PROPERTY.						-			No.				-				- I		
1	1	1 3 * 7 2 14	3 1 1	11111	1 3 10 4 15	50 49 6 15 36 11	112 100 20 20 142 23	106 85 19 33 107 23	218 185 39 63 249	0-01 0-07	0.3 0.3 0.3	1 1 1 1 1 1	21 90 14 42 67 56	0°1 0°07 0°1	0.04	0.02 0.2 0.6 0.4 0.6	1°03 3°6 0°4 1°5 1°4 1°8	4°3 13°4 2°6 6°0 11°3 7°1	4'5 14'1 2'8 6'8 6'3 7'9	4·5 13·6 3·7 6·4 9·9 7·5	9'6 10'7 3'7 8'3 9'0 9'8	0 10 11 12 12 14
	111	3	4 2 1	-	59 4 1	444 74 92	87 94	417 79 86	928 166 180	0°2 1°4 0°07	0°8	0.04	6·1 6·7 4·7	0°7 0°6 0°07	0.9	1°3 0°4 0°07	913 814 614	19°8 20°3 19°8	19°3 17°4 13°8	19'8	20'3	15 16 17
2	3	9 4	3	1 -	14 7	213 78	364 84	\$00 57	624 141	-	273	1.6	9-6	0.3	t-8 0-3	0.6	7:8	24.8	19-8	23.3	12-4	18
10	3 1 1	44 1 36 7	1 2	1	57 1 39	270 49 165 56	373 94 219 119	973 84 904 87	645 178 433 206	20	0.02	6-05 	5'4 11'0 7'5 12'0	0°8 0°7 1°3 1 5	0.0	1-3 0-1 2-0 1-1	6-3 4-6 8-5 6-0	14 8 15 0 35 0 25 4	16-2 18-9 21-8 19-3	15 0 16 6 22 4 22 4	16°1 34°3 30°1 23°3	21 21 22 23
3		53 3 13	8 818181		65 3 19	550 54 70 94	797 43 63 139	565 39 54 109	1,363 61 116 248	0.5 0.7 0.3	01	1 1 1 1	9°1 1°9 3°0 6°7	1°6 0°3 0°4 0°8	0°7 0°1 0°6 6°1	0.3	9°0 6°1 7°1 5°0	24-7 9-2 10-1 14-0	1919 910 1412 1313	23°4 9°1 11°7 -3°3	21'9 16'1 11'8 13'0	24 25 28 37
1	-	7	3		2 10	537 224	389 270	332 266	721 536	0.3	0%		5-5	0.4	0.4	0.04	6'4 7'4		12-2	13-6	13.0	24 30
-	7 1	26	10		46	403 27	728 71	563 56	1,279	or6 119	0.3		7'8 18-7	0.6	0.2	0.2	4°8 5:1	15'4	14'9		1914	30
		13 1	-	-	14 1 1	22 18 16 8	153 49 28 55	133 28 33 49	286 68 60 99	0.4	0°06 0°2 0°08		12°6 5°7 3°3 13°1	3°9 0°06 1°7	0°8 0°3 0°3	0°9 0°08 0°2	1'4 1'3 1'0 1'3	16:5 6:9 3:1 14:8	21.4 8.9 4.7 19.8	18°5 7°6 3°8 187	13·8 8·5 3·9	33 88 34 36

Annual Form No. VI .- Deaths registered from different causes in the

-		Mar IV	-						ti.					- 10		
-1			3			•			5	201	6	7	8		10	11
	and to say	Populatio	a according t of 1931.	o census		Births.		Bi	rth rat	e						(610)
No.	District and Town.	Male,	Femals.	Total,	Malo,	Female,	Total.	Male,	Female.	Total,	Cholera.	Saall-por.	Plague.	Peress.	Dysentery and diarrhma.	Respiratory diseases.
	TOWNS-someld.															
	SANTAL PARGANAN DISTRICT.						100	1						1 2		
01 26	Sahibganj	8,530	7,853	15,863	84	62	146	5'3	319	9'2				24		3
37	Deogbar	8,117	6,100	14,217	61	39	100	4'3	2.9	7.0	8	17		80	2	4
1 39	Dumks	5,317	4,154	9,471	39	82	71	41	3'4	7'5	-	7	***	18	1	5
39	Madhapur	4,997	3,968	8,965	87	43	100	6.3	4'8	11.1		-	***	34		
-	HAMARIBAGE DESTRECT.						24	12								
60	Hazaribagh	10,903	10,074	20,977	165	168	353	8.8	8.0	10.8				157		5
41	Chatra	4,312	4,448	8,758	188	185	293	15.7	17-7	33.4		15		125	1	
43	BANCHI DISTRICT.	11,122	10,000	91,122	147	123	270	6.9	5-8	19-7	1	-	***	83		1
43	Ranchi	26,918	23,509	50,517	396	355	751	7-8	710	14.8	4	1		196	46	14
64	Lobardaga	3,816	3,741	7,577	113	85	198	14.9	11:2	26-1	-		144	51	8	2
9)	PALAMAU DISTRICT.	15	55 5									100			1 1	
45	Manner District.	8,601	5,439	12,040	103	106	209	8-6	8*8	17'4	-	10	***	48	3	
- 66	Purulia	14,388	11,586	25,974	248	234	472	9-5	816	18-1		9		194	. ,	9
47	Ragbun:thpur	9,054	3,485	7,139	122	79	201	17.1	1 100			37		123		1
48	Jhalda	3,470	3,454	6,934	18	66	164	12.7	9.5	22*2		4		74	1	
49	Dhanbad	9,883	6,478	16,356	229	283	512	100000	17-3	31.3	4			57	15	17
	SINGERRUM District.															
50	Chalbassa	5,716	5,069	10,765	137	109	246	12:7	101	22'8		2		87	7	2
81	Chakradbarpur	6,215	4,976	11,191	75	71	146	6.7	63	15-0	-	-		39	1	3
58	Jugsalai	8,075	3,646	8,721	130	85	215	14'9	97	24.6		7	-	37	-	
\$3	Jamahespur	51,137	32,601	83,738	193	113	295	5.3	1.3	3-5	1	2001	***	168	9	
(a)	Total for all Towns	733,183	592,193	1,326,176	144,535	13,026	27,561	11:0	9.8	20.8	427	414	60	8,778	1,004	876
(a)	Total for the whole Province,	16,238,978	16,132,279	32,361,217	564,117	530,291	1,100,408	17'4	16-5	34'0	13,948	7,485	1,470	884,7(8	4,000	3,299

(a) Excluding eantonment population.

DIX I-contd. Additional Additional Province, during the year 1937-concld.

1		91-	1	n	100	17.1	12	1	13	*				-		14						-	15
-			In	Juries.				Total	deaths from	n all	accept.		Batio	of death	s per l	,000 of	popula	ation,					
-	Sulei	de.		d animals.										-					Fr	om all	osuses.		
The state of the s	Male.	Pemalo.	Wounds or seeidents.	Saske-bite or killed by wild animals	Rabies.	Total.	All other causes.	Male.	Female.	Total,	Cholers.	Small-por.	Plague.	Pereis.	Dysentery and diarrhota.	Respiratory darenses.	Injuries.	All other causes.	Male.	Femile.	Total.	Meso of previous five	Nos
-	-				-				200	1	4		2,00		B	2.0					egrol		
1		-	4			4 3	9 23	19	20 37	39 106		1.2		1.8		0.3	0.3	0.8	3*3	37 61	25	3.2	38
	-			1		1	4	22 29	14	36			-	1.9	01	0.2	0.1	0.4	4:1	3:3	3.8	4.4	37
1	-		1	-		1	11	-				-	-	29	***		0.1	1-2	5-6	4-5	51	4:2	39
1			7	1		8	14	97	93	190		-	-	7-5	0-2	0.3	0.8	0-7	818	9-2	9*0	916	40
					-	3	31	57	76 51	177	0.04	1.7	-	34-5	0.1	0.2	-	9.2	5°1	17°1 5°1	5·1	5.1	42
1	2	1	4		1	8	217	297	185	482		0.03		3-8	0.0	0"2	0-1	42	11'0	7.8	9.5	4.9	43
		**	1	100		1	24	47	39	96	-		-	67	1.0	0.8	0*1	3-1	12:3	10:3	11-3	17.5	44
-		-	-	-			8	43	27	69	-	0.9		4.0	0.3	-		07	6.4	2.0	5-7	60	45
	,	1	3	-			81	153	103	255	***	0.3		7.5	0.3	018	0.5	1.2	10-6	819	9.8	11.0	46
1	***				***	-	8	104	65	160	***	5-2	-	17:3		0.1		1:1		1816	F.3745	17:3	47
-	- 2	1	17	1	1	22	115	192	94	80 226		0-5		3'4	0.8	1.0	1.3		10-7	18'4	11.5	16.6	48
-												-				10	10	10	123	14.5	13-8	12:7	49
1			8		***	8	45	85	- 66	151		0.5	***	8'0	9.0	0"2	0.7	41	1000	13.0	12000	17-3	50
1	-		3	-	***	1 6	37 6	43	26	81 49		-		3°4 4°3	0.1	0.3	0.1	3.3	6-9	7-7	516	8.8	51
	8	3	28	1		40	175	252	141	393	0.01			3.0	0"2		0.4	2:1	4.9	43	47	41	62 63
1	40	30	542	10	12	674	6,323	10,196	8,379	18,575	0.3	0.3	1704	6.6	0.8	0.7	0.2		13.9	11'4	14'0	13-8	_
1	643		\$,604		116	9,150	105,142	315,663	543,590	729,153		0.3	0.04	18-0	0.1	0-1		-	23-8	21.3	29-6	22.1	

APPENDIX TO ANNUAL

Births and Death's registered in the contonment of the

1	1	1	3						a a		5	6	7	8	9	10
		India populat Ces	in non-mi	litary eding to 931.	1	Births.		Bi	rth-rat	0.					e) abit	
No.	Name of cantonment.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Cholers.	Small-pox.	Flague.	Forers.	Dysentery and diarrhoss.	Respiratory diseases.
1	Dinapur	5,909	4,368	10,217	126	123	249	12:3	12.0	24-3	1			115	6	7

FORM No. VI.

Bihar Province, during the year 1937.

			11			12		13							16						15
		In	juries.			1000	Total all	deaths	from		Ratio	of deat	hs per	1,000 of	popula	tion.		Al	l cause	a.	
Male	Female.	Wounds or accidents.	Snake-bite or killed by wild animals.	Rables.	Total.	All other causes.	Male.	Female.	Total.	Cholera.	Small-pox.	Plague.	Forers.	Dysentery and diarrhose.	Bespiratory diseases.	Injuries.	All other causes.	Male.	Female.	Total.	N o.
	-		-		-	73	93	109	202	0.1			11-2	0.2	0.7		7:1	15-7	16:3	197	1
23	3						1 1								-	-	1	-	9 D.	P.H.	_

Deaths registered from different kinds of fevers,

-						-			1	1		125 335	1	1	la constitution of	1000
					15			chaetal).		01	14			12		
	Munic	ipalitie			in the	4	1133	over (Spiro	-		al Fever.	15	Forer.			
					Malaria.	Enterio Feren.	Measies.	Relapsing Perer (Spirochaetal).	Kala Azar.	Induenza.	Cerebrospinal	Thypus Pover.	Blackwater Fover.	Other Perets.	Dyser tery.	Diarrhous.
2.5		1	2	1	3	3		5	8	7		9	10	n	12	13
p	ATNA I		CT.	-					1	1						
T			-		101	61	3	,,,,					-	330	253	58
					-		-						-	183		30
	-												***	141	10	8
					-	***				***				73		
	BAYA D	ISTRIC	T.	- 1	30	0.11		1 100	1 page	101	0					1
		***			-	***							1	1,803	121	2
Control of the last			***		3		-	1						153	3	-
	HABAD	DIST	RICT.					-		-						
		***		1001			***	***		***		***		141		***
				***	-								-	20	***	1
		***	***			100			***					41		
Sararam				Ξ			***	tes						170	***	4
		 M. D.18	TRICT	***	***	***	***			101			***	34	***	-
Beltiah	MPARA		TRICI.									-		269	1	5
			STRICT,	-	***		***			1	***	***		50	1	
45												1		233	16	20
	***				- 41				***				***	78	14	25
			***					-	***	***		***	-	118	4	-
	SOHYR	DISTR	ICT.		7	6	1	2000	8	16		5		247	10	11
							5							191	6	15
	RNEA	DISTR	ICT,													
			***		185		1		***	1	***	2		6	23	12
	***	***	***		27		1		1	1	1	3	3	1	1	
					75		***	-		3		1			4	6
Gab th mand	NTAL P	ARGAN	YAS.					1000			***			34		
		***			45			***	1					4		
					3							***		15	1	
The state of the s	NCHI I	 DISTRI	CT.					***						34		
Ranchi .		***	***		4			-						198	43	3
	 KBHUM	DISTR	ict.				***	***	-		***			120	8	" 1
Purulla .						46					28		***		-	
Jhalda . Raghunathpur		***	***		33		-	***	***	1			_	1123		
				-	5	1	***					. 6		45	12	3
	HBHUN	DIST	BICT.						200			_		87	5	21
Chakradharpur		***										_		39	- 1	
Jugaslai		***			-				***		***			37		
Jamsheipur	BAN D		т.		***		***		***		***			168	1	8
Chapra									3			2		284	37	19
Cim.			***	-				***						67	-	6
	1				101			***	1			1	m			

No. VI(a)

'dysentery, diarrhoea, respiratory diseases and other causes.

_	10.00	130.00													
(1000)	10 1000	A none	Sile m	Min	(inter)	Mes CL									Ob faths
Posumonia.	Pulmenary Tuberculosis.	Hosping cough.	Other respiratory diseases,	Berl-bert.	Acute pollomyelitis.	Diptheria.	Chickenper.	Mumps,	Tuberculosis of joints.	Other tubered at diseasts.	Leprosy.	Caneer,	Deaths from child-birth.	Deaths under one year.	Infantile mortality rats per 1,000 births.
			1		1				1	1	-		27	28	1
14	15	18	17	19	19	20	21	22	23	24	25	26	1 21	28	29
										7	4	29	6	370	156-2
167	165		14	77	***	***	1	-	"			-		108	146'3
100			15		***		***				***	1417		5.9	123 8
	***		6			***							Tue	83	185-2
51 Cm			- 4	***		10.00	***	***	***	***	7**			43	257-6
1	16-	67	39	-			7	***		100		-	117	763	20110
1	-	- 67					3				***		11	22	89'4
			4				5	***	440	***	***		6	73	155 8
100	6												A STATE OF	THEFT	
		-	5		***		in	***		-		***	***	39 61	78% 173°4
-		-	5								- 144			7	18-7
-						***	-						6	20	123 4
-								***	200	100	***			57	10510
		140		***		-		***			***		***	13	108-4
W	C	100.00	23						***				-	74	69-6
·	***	II	4		200	***	***							32	96.3
-	-	11	17	-	***		6.	***			***	9	31	153	155-9
		1	17	***	***		1			100		***	2	95	140-7
	***		8		400		100			16			3	58	184'4
	***	1	1	-			***	***	f 140	5		***	***	61	197'5
11	3	- 9				***	58	101	***	77	***	***	10	169	117:2
5	2	2	10	***	-		21	***		100	***	***		116	107.8
		3	8	100			***	***						30	143.5
2	***		5	1		***								16	113-4
		***	3		-		2	tes						18	129-5
		***	2	***	111		***	***		***		***	***	17	119-7
			3			****	100		-		***	***		9	61-8
1			1				5	100		5		***	1	12	1200
=		2	3	++3		***	***	101	-					6	81.2
	***	***	***	101	***	***	***	***			***		-	8	80-0
11			3	***		1	1	***		15		1	1	52	69:3
-			2	***		***	- 111	***			***		***	23	116-3
	101		9			***	9		100	***	***		1	47	99'6
-					***	***		***			***	***		12	78'0
	1	***	7		***	***	10			1	***		5	20	66.0
1		1000				78/16	100000						1	52	130 8
		3	3	***	***	***	2	***		***	***	***		30	137.0
	***							***						15	6918
														17	91.2
14	25		7			1		***	100		1		6	177	125 4
			10		***	***		**	***	***	***		101	40	125'0
		0	***	100	***	-	-	***			24	***	***	37	179-5

In.

ANNUAL FORM

Deaths registered from different kinds of fevers

		0.000													-	_
The second secon	Maulei	palities.			Malaria,	Euterie Forer.	Measles,	Relapsing Forer (Spirocharial).	Kala Azar.	Influence.	Corebrospinal Feror.	Thypus Perer.	Blackwater Forer.	Other Forers.	Dysentry.	Diarrhota,
1711		1		1	,	3	4	8		,	8	6	10	11	13	13
De .	DABBHA	NGA DIS	TBICT,													
Darbhanga		***			877	***			12	80	***	***		131	82	19
Samastipur		***	***	200			***		201		***	191		30	3	2
Madhubani	***	***	*	***	108		***			***	***				13	2
Boserah	***	***	***			3	***		***		***	***	149	15	3	_ 1
	PALAMA		OF COT					-		- 19			1		- 1	191
m. N					45							2		1	3	-
Daltonganj		***	***			10.00				10000		-2			-	
	HAZARIB.	AGH DIS	STEICT.											100		
Hazzribagh	100	101		***	1	***	***	1	201	100		3		163		
Chapra	***	***	***		72					***			101	83	1	
Girldih	911	410	***			***	444	-		***		***		83		***
	BHAGALI	UR DIS	TRICT.									-			3	
Ebaga'pur		100	***					***	-					656	30	27
Colgong	-	***		-				***		***			=	73	=	3
property lives							1	1	1	1				1		

No. VI(a)-concld.

dysentery, diarrhoea, respiratory diseases and other causes-concld.

Pasamonia.	Palmonary Taberculoris.	Heoping cough,	Other respiratory diseases.	Beel-beel.	Acute pollomyelitis.	Diptheria.	Chiek en pox.	Mamps.	Tubercalogis of joints.	Other tubercular diseases.	Leprosy.	Cancer,	Deaths from chid-lith.	Deaths under one year.	Infantile mortality rate per 1,000 births.
16	15	16	17	18	10	20	21	23	23	24	25	26	27	38	29
														Toni in	-
THE .	10						10.5	70	(What	100	100				
8	***	36					,	-	-	***				207	115-3
			6		-					-	***		1	26	62.0
***	***	***	8		***		1	***	***	-				45	93'4
	***	1	1	***	***						100	***	2	16	60-9
-	-			***	-		9				-		-	22	105.8
0 4	100								Tage				1	26	7316
	-	150				-		***	***					34	1160
(4"			5		-	-	***					1	***	19	70'4
		1	***				***				-				
				3											
	***		- 64				***		***			-		267	163·6 327·6
	***					in					***	tor.		133	281.0

24

9 D.P.H.

APPEN

Annual Form No. VII .- Deaths registered from Cholera in the

1		2	1	3			1							5
	4			Circle	es of	Villa	gea.							
No.	Dis	triot	-	Number in each district.	Number from which deaths from cholers were reported.	Number in each district.	Number from which deaths from cholers were reported.	January.	February.	March.	April.	May.	June.	Jaly.
1	PATNA	DIVISION.				1					1			
1	Patna			20	20	2,315	353	1	1	3	33	20	89	147
2	Gaya			16	15	6,038	420	1		6	23	48	95	325
3	Shahabad	***		17	11	4,735	67	1		-0.	4	10	12	4
		Total		53	46	13,108	840	3	1	9	60	78	196	476
			-											
	TIBHUT	DIVISION.			-					100			170	
4	Saran			13	13	4,305	84		***		7	18	4	6
. 5	Champaran	110		- 11	8	2,548	23				2	12	3	1
8	Muzaffarpor			14	12	4,059	290			30	20	311	304	99
7	Darbhanga	***		14	14	3,135	480			75	92	93	110	44
116		Total		52	47	14,047	877			105	121	434	421	150
-	100/1/4-													-
		UR DIVISION		-	10		470							33
8	Monghyr	***	***	18	13	2,610	280			15	58	151	380	231
9	Bhagalpur	***	***	14	9	3,080	115	10		19	64	16	35	119
10	Purnea Santal Parga		***	17	,	4,160	323	6		36	37	7	12	
11	center rathe	nas		10		10,160			4	1	17	20	108	257
		Total		54	43	20,010	1,188	17	4	71	176	192	535	607
	CHOTA NAG	PUR DIVIS	ION.											
12	Hauaribagh			21	12	6,087	67	2				31	72	77
13	Ranchi		***	33	9	3,838	45						1	38
14	Palamau	***		10	5	3,134	18			1				4
15	Manbhum	***		35	20	4,642	54		20	40	8	23	1	6
16	Singhbhum	***		13	7	3,018	49					162	20	15
		Total	***	111	53	20,714	233	2	20	41	8	216	. 94	140
	Total for	th) Province		270	189	67,879	3,138	22	25	236	365	920	1,246	1,373

DIX I-contd.

districts of Bihar Province, during each month of the year 1936.

-							6	75		7		8	1
Ī							Total.	ant dis	Ratio of	deaths per l	,000 of	previous	F
	Angust	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	No.
1	98	. 52	271	386	112	596	617	1,213	0-6	0.0	0.6	0-6	1
1	227	232	256	197	75	777	708	7,485	0.6	0.6	0.6	1.4	2
-	5	5	42	102	31	107	109	216	0.1	0.1	0.1	0.8	3
-	330	289	569	685	218	1,480	1,434	2,914	0.2	0.2	0.5	1-0	
-													
	2	7	86	98	87	159	106	265	0.1	0.08	0.1	01	4
1		7		3	12	- 20	20	40	0.01	0.01	0 01	1.0	5
	28	121	253	467	238	934	937	1,871	0.6	0.6	0.6	0-4	6
_	9	10	62	619	362	740	736	1,476	0.2	0.5	0.5	0.5	7
-	89	145	351	1,187	699	1,853	1,799	3,652	0-3	0.3	0.3	0.5	1
		DE				03							1
1	196	139	602	568	70	1,164	1,251	2,415	1.0	1.1	1.0	1.1	8
1	116	124	722	1,108	401	1,350	1,388	2,732	1.9	1.2	1.2	1.0	9
-	457	79	76 116	54 144	12	136 645	108 590	1,235	0.1	0.6	01	0.5	10
0	10	100	1.591	12	514								-
-	771	346	1.091	1,974	319	3,295	3,331	6,626	07	0.8	0-7	1.0	
1	33	6	85	30	5	191	150	341	0.5	0.2	0.2	0.9	12
-	5	3	4		***	26	25	51	0.03	0.03	. 0.03	0.3	13
1	9	5	1	***	***	14	6	20	0.03	0.01	0.03	0.9	14
-	2	33	13	2		81	67	148	0.08	0.07	0.08	0.7	15
-	-		-			94	103	197	0.2	0.2	0-2	0.1	16
-	49	47	103	33	5	406	351	757	0.1	0.1	0.1	0.6	
-	1,189	827	2,542	3,778	1,436	7,034	6,915	13,949	0.4	0.4	0 4	0.2	

APPEN

Annual Form No. VIII .- Death's registered from small-poz in the

1	2	3		•							5
		Circles of B	ogistration.	Villa	ges.						
No.	District.	Number in each district.	Number from which deaths from small-pox were reported.	Number in each district.	Number from which deaths from small-pox were reported.	January.	February.	March.	April.	May.	June.
	PATNA DIVISION.	20 000	Carrie .	1			100	1			1
1	Patus	. 20	19	2,315	207	- 49	- 71	56	118	64	54
2	Gaya	. 16	15	6,058	331	67	186	140	150	171	120
3	Shahabad	. 17	17	4,735	272	38	126	116	128	130	64
	as Torde	000			USAL						
	Total	53	51	13,108	810	154	3\$3	312	395	365	246
	20 000				OIL TO						
	TIBHUT DIVISION.	100	40 1 1 10	1	100	13					
	Saran	13	12	4,315	283	34	28	27	97	136	150
	Champarau	11	10	2,548	65	8	9	10	31	130	80
6	Mozaffarpor	. 14	12	4,059	28	11	5	3	10	16	23
7	Darbhanga	14	11	8,135	89	14	34	12	31	76	54
	Total	53	45	14,047	465	67	76	53	169	358	307
		19 31			Self -	114	-	1192	les		
	BHAGALPUR DIVISION		MC T	194 11	101 15	NE -100	1 62	100			
8	Monghyr	13	13	2,610	230	21	43	23	62	132	89
9		14	11	3,080	110	34	27	51	63	86	51
10		17	13		155	14	30	20	57	71	49
11	Santal Parganas .	. 10	8	10,160	431	65	67	88	128	95	95
	Total .	54	45	20,010	929	134	167	188	310	384	284
	CHOTA NAGPUB DIVISIO	N					17	1		9	
12	Hazaribagh	. 21	8	6,087	50	4	6	4	5	11	24
13	Ranchi	32	7	3,838	33	4	4	3	12	8	4
14	Palamau	10	8	3,134	340	21	91	183	139	168	117
15	W-11	35	28	4,642	263	75	103	83	139	118	88
16	Sieghbhum	. 13	6	3,013	52	15	14	22	20	21	13
	Total .	. 111	57	20,714	788	119	218	244	315	326	216
	Total for the Province .	270	198	67,879	2,942	474	794	796	1,190	1,433	1,053

DIX 1-contd.

districts of Bihar Province, during each month of the year 1987.

-			1				6			7		8	1	9	1
							Total.		Num deaths chil	ber of among dren.		tio of des er 1,000 c opulation	n.f	previous	
July.	August.	September.	October.	November.	December.	Male.	Female.	Total.	Under I year.	One year and under 10 years.	Male.	Female,	Total.	Mean ratio per 1,000 of previous five years.	No.
60	20	5	4	16	17	246	288	534	34	92	0-2	0-3	0-3	0.2	1
75	38	19	. 27	40	83	518	556	1,074	61	114	0.4	0-5	0.4	1.0	2
49	28	*	14	25	22	355	389	744	79	169	0-4	04	0-4	1.0	3
184	86	28	45	81	122	1,119	1,233	2,352	174	375	0.3	0.4	0.4	0.8	
108	27	18	21	54	93	408	385	793	46	152	0.3	0-2	0.3	0.7	4
37	20	3		3	28	173	186	359	78	104	0.2	0-2	0.2	0.5	5
	1	5	-	9	16	57	42	99	1		0.03	0.02	0-03	0-3	6
3	14	2	3	9	17	131	138	269	10	7	0-08	0-08	0-08	0-3	7
148	62	28	24	75	154	769	751	1,520	135	263	0-1	0.1	0:1	0.4	
					· Ima			Annua I				omren	Live	ADAUG	
48	11	4	2	16	5	234	223	456	87	115	0.2	0.2	0.2	0.9	8
27 29	19	12 2	1 2	6	21	202 154	196	398			0-2	0.1	0.2	0-7	10
55	18	23	5	5	. 5	380	269	649	23	30	0.4	0.3	0.3	6.6	11
159	63	41	10	27	33	970	829	1,799	109	145	0-2	0.3	0.2	0.9	
can)	no	22.2	-	nn.	hu	100	92.1		11.	12					
16	6	-			201	40	36	76	7	6	0.04	0.02	0.02	0.5	12
2	1	1	7		3	27	22	49			0-03	0.02	0.03	0.2	13
60	26	17	10	10	49	447	394	841		-	1.1	1.0	1.0	0-5	14
20 31	17	5	7	26	55	396 80	309 63	705	32	8	0.4	0.3	0.4	04	15
129	55	24	25	36	107	990	824	1,814	40	15	0.3	0.2	0.3	0-4	
620	263	121	104	219	416	3,848	3,637	7,495	458	798	0.3	0.3	0.2	0.6	

APPEN

Annual Form No. IX.—Deaths registered from Fevers in the district

1	2	+	8			4							5
	Must be at		Circles of tio	n.	viii	nges.							
lo.	District.		Number in each district.	Number from which deaths from fevers were reported.	Number in each district.	Number from which deaths from fevers were reported.	January.	February.	March.	April.	May.	June.	July.
	PATNA DIVISION.						1	-	1		- 1	-	1
1	Patna		20	20	2,315	2,270	1,419	1,349	1,510	1,793	1,774	2,514	2,421
2	Gaya	107	16	10	6,058	6,025	2,389	2,521	2,460	3,322	3,712	4,632	4,785
3	Shahabad		17	17	4,735	4,652	1,476	1,905	1,911	2,410	2,684	3,805	2,970
	Total		58	53	13,108	12,947	5,284	5,775	5,881	7,525	8,170	10,451	10,126
	TIRHUT DIVISION.												
4	Saran		13	18	4,305	4,250	1,912	2,171	1,955	2,178	2,739	2,491	2,740
5	Champaran		11	11	2,548	2,490	3,268	2,383	2,559	2,315	3,004	3,145	2,600
6	Muzaffarpur		14	14	4,059	4,030	4,289	3,867	4,485	5,571	5,872	5,148	4,376
7	Darbhangs		14	14	3,135	3,029	4,063	5,795	5,510	6,780	5,979	5,180	4,133
	Total		52	52	14,047	13,799	13,532	14,216	14,509	16,844	17,594	15,964	18,952
	BHAGALPUR DIVISIO	N.											
8	Monghyr		13	13	2,610	2,520	2,460	2,371	2,630	3,127	3,022	2,785	2,890
,	Bhagalpur		14	14	3,089	3,020	4,718	5,059	4,554	5,265	4,686	4,201	3,368
10	Purnea		17	17	4,160	4,076	5,623	5,562	4,960	5,844	5,702	4,654	4,05
11	Santal Parganas		10	10	10,160	8,596	2,386	1,997	1,945	2,537	2,729	2,620	2,491
	Total		54	54	20,010	18,142	15,187	14,959	14,089	16,773	16,139	14,260	12,81
	CHOTA NAGPUR DIVIS	TON:										1	
12			21	21	6,087	5,290	2,069	1,983	1,787	2,259	2,428	2,521	2,283
13	Hazaribagh Bauchi	***	82	32	3,838	3,730	1,498	1,827	2,126	2,006	2,304	2,239	2,113
14	Palaman	***	10	10	3,134	2,910	1,347	1,283	1,233	1,452	1,851	1,920	1,476
15	Manbhum		35	35	4,642	4,420	2,271	2,110	2,108	2.284	2,460	2,286	2,197
16	Singhbhum		13	13	3,013	2,950	1,113	1,024	1,077	1,060	1,034	913	1,158
	Total		in	111	20,714	19,300	8,298	8,226	8,331	9,061	9,577	9,879	9,174
	Total for Province		270	070	47.000	64,188	42,301	43,206	42,810	50,203	51,480	50,554	46,067

DIX 1—contd.

of Bihar Province, during each month of the year 1937.

						6			7		8	H
						Total.		Ratio of d	eaths per 1, pulation.	000 of	previous	1
Angust.	September.	Oottober.	November.	December.	Male.	Female.	Total.	Male.	Pemalo.	Total.	Mean ratio per 1,000 of previous five years.	
				1	1		1	1	es Moi	dvid A	TAT	1
2,175	3,450	2,401	2,498	2,415	12,243	12,476	24,719	128	14'0	13-3	11:9	1
5,295	5,028	4,881	4,487	4,569	24,465	23,166	48,031	20-5	19-7	20-1	19.0	т
3,900	3,641	3,557	3,226	3,798	17,210	17,573	34,783	17-2	18.0	17-6	16-2	1
11,370	11,119	10,839	10,211	10,782	53,918	53,615	107,583	17:1	17-4	17-8	160	1
									150	arvid s	Hall	1
2,251	2,372	2,305	2,433	2,636	15,820	12,872	28,192	12.2	10-2	11:3	10-9	1
2,415	2,490	2,583	2,758	3,374	18,005	14,980	32,985	16.6	14.0	15-4	16.2	1
3,594	4,266	4,341	6,253	5,775	30,658	27,179	57,837	21.2	18-2	19-7	19-5	1
3,627	4,657	4,882	6,056	7,133	34,328	29,539	63,867	21.8	18-5	20-2	17:5	
11,957	13,785	14,110	17,500	18,918	98,311	84,570	182,881	18.2	15-6	17-0	16-5	1
									V 424	G HUYLE	BILLIO	1
2,786	3,282	4,185	4,065	3,974	19,373	18,213	87,588	169	15-9	16.4	168	1
2,580	3,692	4,316	4,411	4,876	27,272	24,454	51,726	24:1	22.1	23.1	18-5	1
3,806	4,300	3,841	5,221	5,551	31,478	27,652	59,130	27-9	26-2	27-0	20-6	1
2,355	2,750	2,427	2,557	2,469	15,895	13,368	29,263	154	18:1	14.3	15.9	
11,537	14,033	14,769	16,254	16,870	94,018	83,687	177,705	20:3	193	20'3	18.0	-
2,744	2,364	2,577	2,546	2,547	14,618	13,440	28,058	19-5	17:5	18.4	16-9	-
3,283	3,076	2,824	2,486	1,909	14,687	13,004	27,671	18.8	16.4	17:7	18-0	11.
1,968	1,926	1,902	2,084	1,836	10,215	9,512	19,727	24:9	23-2	240	21.0	и.
2,594	2,507	2,394	1,968	2,323	15,203	12,299	27,502	16-2	14.1	15.0	15.4	- 14
1,336	1,166	1,175	1,301	1,422	7,462	6,314	13,776	18-5	15.2	16-9	13.0	-
11,925	11,039	10,872	10,335	10,037	62,185	54,569	116,754	18-6	16-5	17-6	16.7	1
46,779	49,976	50,590	54,300	56,607	308,432	276,441	584,873	19-0	17-1	18.1	16.3	1

APPEN

Annual Form No. X .- Death's registered from Dysentery and Diarrhea in the

1	2		3		4									5
1	i hod		Circles of l	Begistra-	Villa	ges.								
No.	District.		Number in each district.	Number from which deaths from Dysentery and Dearrhoss were reported.	Number in each district.	Number from which deaths from Dysentery and Diarrhona were reported.	January.	February.	March.	April.	May.	June.	July.	August.
	PATNA DIVIS	ION.												
1	Patna		20	20	2,315	424	55	53	47	78	79	101	139	120
2	Gaya		13	14	6,058	190	8	9	28	8	13	13	21	25
3	Shahabad	205	17	8	4,735	10	4	1	3	5	4	1000	1	
	Total	147	53	42	13,108	624	67	63	78	91	\$6	114	161	145
	TIRHUT DIVIS	ION.												
4	Saran		13	13	4,805	111	10	9	18	23	30	27	18	27
5	Champaran		11	7	2,548	15	3	3	1	1	6	1	1	***
6	Muzaffarpur		14	14	4,059	33	8	1	14	17	10	11	9	13
7	Darbhanga	***	14	11	3,135	1\$5	140	66	35	65	24	16	10	4
	Total	100	52	45	14,047	314	161	79	68	106	70	55	38	44
	BHAGALPUR D	IVI-										134		
8	Monghyr		13	10	2,610	47	9	1	10	11	7	2	9	9
9	Bhagalpur	-	14	10	3,080	45	3	10	,	7	20	9	17	3
10	Purnea		17	13	4,160	39	4	10	14	16	11	12	7	4
11	Santal Pargaras		10	9	10,160	45	9	1	10	6	8	5	13	22
	Total		54	43	20,010	176	25	21	43	40	46	28	46	38
	CHOTA NAGPUE	DIVI				11,400	SD-M	1000	100			No.		
12	Hazaribagh	***	21	15	6,087	47	2	5	8	2	9	2	19	13
13	Ranchi	-	32	29	3,838	592	39	37	48	42	33	78	133	255
14	Palaman		10	7	3,134	7	HQ.II		1	-	2	1	2	2
15	Manbhum	-	35	14	4,642	55	6	4	8	7	9	9	10	13
16	Singhbhum		13	7	3,013	19	1			3	25	8	16	7
	Total		111	72	20,714	720	48	46	65	54	78	18	180	250
	Total for the Pro	when	270	201	67,879	1,834	301	209	254	291	190	295	425	51

DIX I-contd. districts of Bihar Province, during each month of the year 1987.

1	-	8		7				6				5	
	T	revious	er 1,000	deaths pe	o of c	Rati	agair.	Total.					
No.		Mean ratio per 1,000 of previous five years.	Total.	Female.		Male.	Total.	Female.	Male,	December.	November.	October.	September.
1		0.4	0.6	9.0	12	06	1,186	560	C26	111	134	156	113
2	1	0.00	0-1	0.1	1	0.1	244	111	133	20	32	24	33
3		0-03	0.93	0.01	14	0-02	83	14	18	1	1	6	6
		0.5	0.2	0-2	21	0.2	1,462	685	777	142	167	186	153
			THE STATE OF		1		6 624					-	
4		0-1	0-1	0.07	11	0-1	214	94	150	26	12	30	14
5		0.01	0.01	0.009	12	0-01	22	10	12	3	1	2	
6		0.02	0.04	0.03		0-05	127	45	82	13	14	12	5
7		0.06	0.1	0.07		0.2	413	113	300	12	14	18	9
		0-06	0.07	0.05		0.1	906	262	544	54	41	62	28
		110			1	Lu I	Fas					0	
	1	0.04	0.04	0.02	11	0.04	104	55	49	9	6	18	14
9		0.08	004	0.03	TT	0-07	118	37	81	9	10	12	9
10		0.03	0.04	0.03	-	0.06	87	20	67	4	2	1	2
11		0.60	0.04	0.03		0.06	96	35	61		4	12	6
		0.02	0.02	0.03		0.03	405	147	258	22	22	43	31
	-				-								
		Name of	1			10				1			
12		0.04	0.08	0.04		0.07	95	37	58	10	7	- 11	7
13	1	0.6	0-7	0.5	14	0.7	1,033	488	600	26	18	97	187
14	1	0.03	0.01	0.002	17	0.03	11	3	8	1		1	1
15		0.08	0.02	0.02		0-06	106	46	60	6	4	10	20
16		0.04	0.1	0-1	111	0.1	88	35	53		3	1	24
		0.2	0.5	0.2		0.1	1,333	554	779	43	72	120	239
		0.1	0-1	0-1		0.1	4,006	1,648	2,358	261	302	411	450

APPEN

Annual Form No. XI .- Deaths registered from Respiratory diseases in the

1		2		1 - 1	3	1								5
-		00	LI W	Cire Regis	les of tration.	vin	ages.	4447						
0.	Die	strict.		Number in each district.	Number from which deaths from Respiratory discases were reported.	Number in each district.	Number from which deaths from Respiratory diseases were reported.	January.	Fobrasry.	March.	Apeil.	Мау.	June.	July.
1	PATNA	DIVISION		A										
1	Patua			20	20	2,315	457	112	95	115	112	96	99)
2	Gaya	***	411	16	14	6,058	88	13	14	14	17	11	16	77
3	Shahabad			17	11	4,735	19	5	6	2	2	1		
						-			-		-			_
		Total		13	45	13,108	564	130	115	131	131	108	115	
	TIRHUT	DIVISIO	N.		-									
4	Saran			13	13	4,305	450	57	50	41	77	50	56	
5	Champaran		***	11	7	2,548	22	6	8	5	2	1	3	
6	Mazaffarpur			14	10	4,059	10	8	8	10	5		7	***
7	Darbhanga		***	14	12	3,135	29	3	15	11	7	4	13	
						-,100								
		Total		52	42	14,047	511	74	81	67	91	55	79	
,	PERSONER	D DINIO			-					-		-		
1	BHAGALPU	K DIVIS	ION.	1						1				
8	Monghyr		211	13	12	2,610	12	5	6	7	7	6	4	-
9	Bhagalpur	***		14	6	3,080	30	2	4	8	8	9	8	
10	Purnea	***	***	17	12	4,160	18		6	5	4	2	2	
11	Santal Pargana	8	***	10	9	10,160	182	6	27	24	18	22	24	
		-						-	10			0.5		_
		Total	***	54	39	20,010	242	13	43	44	37	39	38	
	CHOTA NAGP	UR DIVIS	ION.	150		8		71	10		119	1 65		
12	Hazaribagh			21	11	6,087	11	7	1	5	3	4	7	
13	Ranchi	***		82	20	3,838	20	5	7	10	11	3	4	
4	Palaman	***	***	10	3	3,134	3	1			***			
15	Manbhum		***	33	20	4,642	100	8	20	25	29	18	16	
16	Singhbham	1977		13	4	3,013	4	2	1	2				
						-					-			-
		Total	•••	111	58	29,714	138	23	29	42	43	25	97	
- 1	Total for the P			270	184	67,879	1,455	210	268	284	302	227	259	-

DIX I-contd.

districts of Bikar Province, during each month of the year 1937.

7						6		-	7		8	1
						Total.		Ratio of	deaths per population.	1,000 of	rions	T
August.	Soptember.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	No
									June 1	- 1392		
102	86	164	147	203	747	619	1,896	0.7	0.7	0.7	0.5	1
11	11	15	17	24	105	71	176	0.00	0.06	0.07	0.07	2
2	3	1	2	6	18	13	.31	0.02	0.01	0.01	0-03	8
115	. 100	120	166	233	870	733	1,603	0.3	0.2	0.3	0.5	
67	56	58	53	101	451	279	730	0.3	0.5	0-2	0.3	4
3	1	3	4	***	19	17	36	0.01	0.01	0.01	0.006	5
4	4	7	9	12	88	40	78	0.02	0.05	0.03	0-03	6
4	3	. 4	13	8	62	31	93	0.03	0.01	0.02	0.02	7
78	64	72	79	191	570	367	937	0.1	0.07	0.08	0.08	
1	3	3	11	6	41	24	65	0.03	0.02	0.03	0103	9
6	4	3	5	5	43	24	67	0.03	0.02	0.03	0.04	10
3 16	24	14	5 26	21	28 176	10	38 236	0.03	0.000	01	0-1	11
26	33	24	47	34	288	118	406	0.08	0-03	0.02	6.05	
-												
7	5	3	4	6	42	17	59	0.05	0-02	0:03	0.03	12
9	6	3	3	1	48	19	67	0.09	0.03	0.04	0.04	13
		***		***	2	1	3	01005	0.003	0.004	0-01	14
14	17	11	15	23	151	65	216	0.2	0.1	0-1	0-1	15
5	1	3	***		8	7	15	0.03	0.02	0.02	0.03	16
25	29	20	22	29	251	109	360	0.08	0.03	0.02	0.02	
254	226	236	314	417	1,979	1,327	3,306	0-1	0.08	0.1	0-09	

APPEN

Annual Form No. XII .- Death's registered from Plague in the

1	2		3	4								5
		Circl Regist	ration.	Villag								
No.	District.	Number in each district.	from which from Plague ported.		from Flague		6					
		Number	Number from deaths from were reported.	Number	deaths from were reported.	January.	February.	March.	April.	May.	Jane.	July.
1	PATNA DIVISION.									1		
1	Patna	20		2,315								
2	Gaya	16		6,038			***	-,-				
3	Shahabad	17	1	4,735	1			1			/	
	Total	53	1	13,108	1			1				
		-	-									
	TIRHUT DIVISION.					100			1.53			
4	Saran	. 13	8	4,305	103	154	156	301	313	73	***	. 3
5	Champaran	- 11	3	2,548	19	1	11	17	12	2	***	2
β	Muzaffarpur	- 14	5	4,059	24	10	3	93	91	43	2	
7	Darbhanga	- 14	2	3,135	17	- 11			34		7	***
	0 000 000											
	Total .	. 59	18	14,047	165	165	170	411	450	118	9	5
	BHAGALPUR DIVISION											
8				2,010		1		11		13		
9		. 1		3,080	2	***				***	***	5
10	1 _	1	1 9	4,160							***	
11		. 1		10,160					12			1
	Onniar Large and			10,100				***				***
	Total .	5	5 2	20,010	2				***			5
	CHOTA NAGPUR DIVISION.											
15	Hazaribegh	2	1 ,	6,087			***		***	444	***	-
13	Ranchi	3	2	3,838					***	***	***	
14	Palaman	1	0	3,134			***	-17				
13	Manbhum	3	5	4,612			***				***	-
16	Sieghbhum	1	3	3,013								
	Total	11	1	20,714								
	Yotal for the Province	. 27	0 21	67,879	168	165	170	412	450	118	9	10

DIX I-coneld. districts of Bihar Province, during each month of the year 1937.

							6			7		8	·
1			1	100	-		Total.	1	Ratio of	deaths per 1,0 opulation.	100 of	revious	
1		Charles of the Control of the Contro	-									per 1,000 of pr	No.
August.	September.	October.		November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio five years.	
-				alk V		100			1	1	- 4	and a second	
-											***		1
			- 2			100		ma		***	0-0005	0-000	2
	***		1			1		1	0.001	7	0.0003	0.003	8
=						1		1	0 (003		0.0001	0.001	19.11
-			12	-	- 10	1					-	- 1990	
5	2		10	22	59	425	673	1,008	0.8	0.5	0.4	04	4
3	1				2	-31	20	51	0-03	0-01	0.02	0.02	5
***			3	10	18	95	178	273	1337	0.1	0.09	0.3	6
					1	26	15	42	0.01	0.01	0.01	0-2	7
		-	-									-	
8	3		13	32	80	577	887	1,464	01	0.2	0.1	02	
-				120	lio j	ret.				1 -			4.0
	***							-	- 111			0.09	8
			1			5	***	5	0.0004		0.0002		9
		-			***			TI (***		10
				-							***		11
***	***					5		5	0.001		0 0006	0-02	
-		10		Per	100	150							
3+13	18.9	1			6	Total 1			1 1			1	1
***				***		-							12
***	***	+	179	***	-	1,75						***	18
	-	T	199										15
								111					16
-	-		0.0	- 10	19								
-	10	10 -	100			-							
The state of		3	13	33	1 80	583	887	1,470	0.03	0.05		0.09	
	5 3	5 2 3 1 1	5 2 3 1 8 3 1	5 2 10 3 1 3 3 3	5 2 10 22 3 1 3 16 3 18 32 32 32 32 32 32 32 32 33 32 33 3	5 2 10 22 59 3 1 2 2 10 18 1	3 10 22 50 425 3 1 2 31 3 10 18 95 1 26 20	1	1	1	1	1	1

APPENDIX II.

PROVINCIAL.

Statement showing details of registration in areas in which it is compulsory.

-17			ot gall	of births per 1,000 ween the	irths re-	per mille	ate per	regi	of deaths stered the year.	Douth-rate	e permille.	(B. C.) of	400
Compulsory re	egistration a	irea.	Population according Census of 1931.	Probable number of bliths at the rate of 286 per 1,000 married women between the ages of 15 and 40.	Actual number of birthe ; gistered during the year.	Probable birth-rate (columns 2 and 3).	Registered birth-rate sails during the year,	Including deaths in dispensary.	Exchaing deaths in dispensary.	Including deaths in dispensary.	Excheding deaths in dispensary.	Number of persons p ed under Act IV (i	ther of persons
-		-	1		1		1				H. H.	Non 187	Number vieted.
1		_	2	3	•		6	7	8	9	10	11	13
1. Patns City			100,690) [2,309	7 (14.9	2,087	1,033	13 1	0.4	***	
3. Dinapore Nizar		101	46,994 24,221		738	1	16:7	393 271	343	8.3	7-8	***	***
4. Barh	nas		9,750		264	1 1	25.0	150	113	11-3	11.2	***	
s. Kbagol			7,413		163		21.0	193	133	17:9	17-9		***
6. Gaya	144	-	88,006		2,622	!!	19-8	3,201	2,004	35-4	33.0		
f. Tikari		***	5,481	1	246	1.	44'3	83	81	15.1	14.9		
8. Daudnagar	***	-	11,699	1 1	603	1 1	39-5	233	228	19-9	19-9		
9. Arrah	***	-	48,912	1	496	1	10:1	218	129	4.5	3.8		
19 . Burar	100	***	13,449		340	l i	25'3	185	145	13.6	10.8	18	17
1 1. Dameson	***		14,431	1 1	244		32.0	89		27	***	***	-
12. Jagdispor	***	***	9,661	1 1	163		33-8	63	52	6.4	5.4		***
13. Sasarara			25,175		643	1 1	43'5	249	198	9-9	7.0	***	
14. Bhabua	***	***	6,002		120		37:2	45	22	7.5	516	***	
15. Chapra		***	47,448		1,412	1 1	20.7	926	781	19-5	16'6	***	Page 1
16. Revelgan;	***	***	8,812	1 11	820		36-3	160	165	18.8	15'8	***	
17, Siwan 18, Bettish	***	***	14,218		408	1 1	32.9	190	112	13.6	7-9	***	***
19. Motihari	***	***	17,941		1,083		15-9	624	443	22-3	15-8	7	6
20, Muzafferpur		***	17,545 43,049	1 11	975	1	22'6	141 645	54	800	3.1	201	
21. Sitamarhi			10,701		272		35.4	178	483 127	16-0	11.2	***	
22, Hajipur			19,200		189	1 1	35-3	433	395	22-4	11.8	***	
23, Lalganj			9,192		314	! !!	841	206	200	22.4	20'5	***	***
26. Darbhanga	***		60,676	1 4	1,828	1 4	30'0	1,362	1,007	22-4	22-4		
25, Reserah	***		8,560	1 4	263	131	2918	61	. 61	9-1	9:1		***
26. Samastipur	***		9,891	Not available.	974	Not available,	27-7	116	71	11:7	7.2	441	
27. Madbubani	101		16,789	N N	487	No	20'9	348	194	13-2	103		
18. Monghyr	401	100	52,863	1 11	1,434		97-1	721	500	13.6	198		
19, Jamalpur	***	***	30,946		1,079	1 1	35-6	536	491	17:7	10-2		-
30. Bhagalpur	***		83,847	1 11	1,634		19.4	1,279	054	15-2	12.6		***
31. Colgong	**		5,138	1 11	145	1 1	27-7	127	127	24-3	213		
32. Parnea	***		15,474	!	909	1 11	13.2	286	144	18'5	9-3	***	
33. Kishanganj	***	***	8,946		159	1 11	15-8	68	2	7.6	0.3		144
8 s. Katihar		***	15,864		241		8.9	60		3.8			
35, Forbesgan)			5,939		142	1 11	33.0	99	90	16-7	16-6		100
36. Sahibgan]	-	***	15,698		146		9-3	39	6	3-6	0-4		***
37. Deeghar	***		9,471		71	1	70	108	48	7-6	2.3		
29, Madhupur	-		8,905		100		11:1	36	***	3.8		0	
40. Hazarlough		***	20,977	1	- 353		16'8	190	16	5:1	1.8	3	3
41. Chaira			8,758	1	293	1 1	33'4	177	171	20-3	2-8	-	***
43, Giridib			21,123		270		12-7	108	81	5.1	9-3		
43. Ranchi -			50,517	i il	751	il	14:8	483	235	9.5	67	33	31
44. Lohardaga			7,677		199		26'1	83	63	11'3	10-9		-
45. Daltonganj			12,040	1	2.9	1	17'6	69	17	5-7	14	1	
44. Purelis	444		25,974		472		16'1	256	85	9-8	3-3	-	=
4º, Raghunathpur 4º, Jhaldah 40, Dhanbad	***	[7,139 6,924	1	201 154		387	80	166 76	23-6	23.2		
50, Chaltasa 51. Chahrabdarpur	***		16,856 10,785 11,191		513 246 346		13.9	226 151	113	14.0	10-2		
52, Jugastlai \$3, Jamehedpr	***	**	6,721 63,738	l i	215 295	ij	346	81 49 393	70 49 75	5°6 4'7	6·3	***	
)Total		1,465,100	1	27,661	1	20'8	18,575	13,630	140	10-3		
-		-	-	-	,,,,,		SAME PROPERTY.		1	110	10.3	66 [08

APPENDIX III.

JHARIA MINING AREA.

STATISTICS OF EPIDEMIC DISEASES.

1937.

					1100 00						
				Infi	#5 E&.	Cho	dera.	Smal	H-pox.	Pla	gue.
	Month,	Total births,	Total deaths.	Cases.	Deaths,	Cases,	Deaths.	Cases.	Deaths.	Cases.	Deaths;
	1	1	,			6	7	8	0	10	11.
January	100-00	 128	78	177	1	3	2	12	-	-	122
February	***	 105	75	160				81	1		im.
March		 161	99	202		1	1	69			
April		 135	94	. 224	2	1		61	-		***
Мау	-	 130	95	333	1	3	***	18			
June		 158	101	484		8					-16
July		 179	101	671		4	1	~			
August	***	 194	110	523	1			1			110
September	***	 173	171	831	1						-
October		 166	130	653	1.			1:			***
November	***	 172	96	428	1			2			+10.
December	***	 166	100	191	3	-		3:			-
of the second	Total	 1,560	1,249	5,007	11	19	9	203:	1		
Ratio per mi	10 1.	 14.5	9:7	39:7	6-09	9.1	0*07	1:6,	9.007	***	-

N. B. -The figures relate to the labour population only and the ratios are calculated accordingly.

APPENDIX IV.

Summary of the activities of the Public Health Circle, Public Works Department relating to the sanitary improvements in urban and rural areas of Bihar during the calendar year 1937.

1. Projects.—The following projects have been completed and submitted :-

		FORECA	AST.		
					Rs.
1.	Purnea drainage				1,02,472
2.	Purnea water-supply				2,39,600
3.	Jugsalai water-supply				1,44,000
4.	Extension of Muzaffarpur	water we	orks		60,000
		PRELIMIN	ABY.		
1.	Earthquake damage repai	r Muzaffa	rpur water-su	ipply	1,09,290
	1 10 - 4		12 12		
		DETAIL	ED.		
1.	Muzaffarpur drainage sch	eme	H ., 0		6,45,517
	10 M 10 G				
	EXAMINATION OF PRO-	JECTS PRE	PARED BY OT	HER AGENC	IES.
1.	Madhubani drainage				40,312
2.	Municipal market, Deogh	ar			2,500
3.	Municipal market, Mongh	yr			8,706

MINOR WORKS.

Two hundred and five estimates prepared and submitted of the total value of Rs. 1,77,000.

CONSTRUCTION.

Patna drainage.—The whole project is nearing completion. Expenditure during the year was Rs. 1,42,789.

Bhagalpur water works.—The filtration plant has been completed and the work is in progress in the new intake well at Barari and on the installation of pumping plant for the tube-well at Mirjanhat. Expenditure during the year was Rs. 92,585.

Motihari Drainage—The reconstruction of the drainage system damaged by the earthquake has been completed at a cost of Rs. 57,480.

Monghyr Water Works.—The reorganisation of the supply consisting of the construction of a reinforced concrete service reservoir and installation of duplicate sets of unfiltered water motor driven pumps has been successfully completed at a total cost of Rs. 77,955; the expenditure during the year was Rs. 49,611.

Patna-Bankipur Water Works.—The supply is obtained from 13 tube wells out of which the yield of one in Amlatola diminished so seriously as to render it almost useless. As an experiment it has been cleaned with an acid solution known as "Noricene" with very satisfactory results at a cost of Rs. 607.

Maintenance.—The Patna-Bankipur Water Works has been maintained in an efficient condition on behalf of the Joint Water Works Committee. The average daily supply was 1,506, 394 gallons being 240,865 gallons more than the average daily supply in 1936.

The municipalities of Arrah, Bhagalpur, Daltanganj, Gaya, Monghyr and Muzaffarpur were assisted in the maintenance of the public water-supplies and no failure occurred during the year.

General.—The total value of the work carried out by the Circle on behalf of local authorities was :-

28 · 9 D. P. H

Table showing health services in Rural and Urban areas

-	.11	4,88,11						Rural areas,		de sa	in labor	0.60	
		1,28,04	911	Med		ers of Hea	dsb	0	and a state of	Vaccin	nators,	(0)	
	District Bo	ard.	1 .70	Heb D. P	ding . H.	Licent L. M	tiates . P.	Epidemie	Sanitary and Health Inspectors.	Male.	Female.	School Medical officers.	Other Health
				Whole time.	Part time,	Whole time,	Fart time,						
	1			2	, 3		5	6	7	8	9	10	11
Patna				1				***	14	97		***	36
Gaya	***			1		4				160			24
Shahabad	•••			1			11	5	5	123			
Patna Divis	sion											2	
Saran				1				9	3	88			
Champaran				1	***			7	10	83			2
Muzaffarpur				1		1		10	13	79			
Darbhanga				1		3		2	11	99			
Tirhut Div	islon											3	

DIX V.

of Bihar Province during the year 1937.

d Urban area	ra ltruit.	d vido	or Other	noine.	ple of	A property						
					,	Urban are	as.					
			Medical	officers	of Health.			Vacci	nators,			
Munic	dpalities.		Holdin D, P, H		Lices (L. P.	tistes H. S.)	Sanitary and Health Inspectors.	Wala	Female.	Inspector of vaccination,	School Medical Officers.	Other Health
		1	Whole time.	Part time.	Whole time.	Part time.		Male.	Female,	ASSES		
-0.00	13		13	14	16	16	17	18	19	30	91	22
Patna City			1				5	7				8
Patna Admini				1			3	1				
Bihar		***					1	1				2
Dinapur Nizar	nat						1	1				2
Dinapur Canto	nment		1-R. A. M. C.				1	1				2
Barh							1	1			- 14	
Khagole							1	1				***
Gaya		01:11	1				3	2				10
Tikari	***	***				***		1		***	***	1
Daudnager		***				***		1		***		100
Arrah	***						3	2	4		***	***
Buxar	***			***	***		1	1				***
Dumraon	-						1	1				
Jagdishpur					***	***		1		***	***	***
Sasaram		***			***		1	1			***	***
Bhabua						-	1	1			***	***
	***	***		***			1	3		***	***	***
Chapra			***				1	3			***	***
Revelganj Siwan							1	1				100
(Bettiah	***				·			1		***		***
Motihari			***		1	1	1	1			***	
Muzaffarpur		***			1	***	2	9			***	***
Sitamarhi		***				-44	1	1			***	***
Hajipur							1	2				***
Lalganj	208						1 11	1		***	***	***
C Darbhanga		1	1	***			2	2		***	***	
Roserah				***	1			1		***	or and the second	
Samastipur		1				1	1	1		115	***	***
Madhubani		***	77				1	1		***	***	***
	***	***		***						***		***
						""		***	***			***

Table showing health services in Rural and Urban areas

								al areas.					
				Modi	ical office	rs of Hea	ltb.			Vacels	ators,		
	District Boar	d.	-	Hold D. P.	ling . H.	Licen L. M	flates I. P.	Epidemie staff.	Sanitary and Health Inspectors,			School Medi- cal officers,	Other Healt staff,
				Whole time,	Part time.	Whole time.	Part time.			Male.	Female,		
	1			3	3	4	5	6	7		0	10	n
												1	1
fonghyr						***		20	3	9			58
Shagalpur								100	4	65			2
												The same	DOLLO
urnea .				1				38	17	103			1
													Contraction of the Contraction o
antal Parga	nas							2	***	15	1		
									-			19	mand .
hagalpur Di	vision			***			•••					2	denc.
azəribagh .								1	1	4			1
											-		,
anchi .		***								7			
alaman .		***		***				8		26			
													name.
lanbhum .				1				4	4	42			-
												1	54%
													a solly
ingbbhum .			•••	***						2			
hata Name	. District									-		1	ALL STREET
hota Nagpu	I DIVISION	148	***	***				")				2	

DIX V.

of Bihar Province during the year 1937-concld.

					U	rban ares	18.					
			Med	ical office	rs of Hea	dsb.		Vacci	nators,			
Mante	ipalities.		Hol D.	ding P.H.	Licen (L. P.	tiates H. S.)	Sanitary and Health inspectors.			Inspector of Vaccination.	School Medical Officers,	Other Health
			Whole time.	Part time.	Whole time.	l'art time.		Male.	Female.		- Canada	maz.
11	13		13	14	15	16	17	18	19	20	#1	23
Monghyr							1	2		,		
Jamalpur			1				2	1		} 1		
Bhagalpur			1				3	3		1		
Colgong						1		1				1,000
Purres		***					1	1				
Kishanganj							1	1				
Katibar							1	1				
Forbesganj								1				
Sabebganj			S				1	1		1	- 120	Tan Par
Deoghar					1			1				
Dumka								1		1	***	
Madhupur							. 1	1]		
			13	1				-				
Hazaribagh						***	1	1				Part
Chatra			*	-		***		1		1		
Giridih							1	1		,		
Ranchi		***	1				3	2		} 1		
Lohardaga								1	-	5		
Daltonganj							1	15		1		
							1	1		-		
Purulia	***							1				
Raghunathpur		***					1	1	1	1		
Jhalda	***	***				***	9					
Dhanbad			-									
Chaibassa								1		1		
Chakradharpu								1		} 1		
Jagerlii	***					1	1	1		J		
Jamshedpur N	otified Are	ia	1				36	5	2	1		

APPENDIX VI.

Table showing maternity and child welfare centres, health visitors and trained midwives in rural and urban areas in Bihar during the year 1937.

					1	Ma	ternity a	nd child	welfare.					
			Con	tres mais	stained by	y-				1				
District		Govez	sment.		nd muni- odies.	Oth	er oles.	Trai visi		Trai	med wives.		ined sis.	Remarks,
		Bural.	Urban.	Bural.	Urban.	Eural.	Urban.	Bural.	Urban.	Bural.	Urban.	Bural	Urban.	
1		2	3	4	5	6	7	8	9	10	11	12	13	16
Patna			6(a)		1(a)		3		4(8)	4	7			11111111
Gaya						***			,	11	1		4	(a) Midwife z
Shahabad	***									3	3	12		(b) Inclu d i n
Muzaffarpur							1		1		***	1	2	Super v i so
Darbhanga	***				1(a)	4					1		3	Government.
Sarau	***				***				***	1		5	4	
Champaran		***								1	2			
Monghyr		***					1		1	1	1		2	
Purnea				***			-				2	1	1	
Bhagalpur										3	1			The state of the s
Santal Parga	nas	***					-			2	2			The same
Banchi	***				1(a)	***	1		1	2	1		12	- Dist
Manbhum		***		-	1(a)	4			***		2	5	3	- world
Singhbhum											5		8	
Palaman	***							-	-		1			
Hazaribagh							-			2	4	-		
Total		-	0		4		6	-	7	30	37	24	39	

STATEMENT I.

	STATE OF THE PARTY								
	District,		Population of district according to the census of 1931.	Average number of vaccinators employed through- out the season.		er of persons v		Average number of persons vaccinated by each vaccinator.	Primary,
Kumber,			Populati 1861.	Average out the	Male.	Female.	Total.	Average	Total.
1	1				5		,		
	Fatso Division. (District excluding towns			C st	40,4/2	59,491	73,623	761	
1	Patns { Towns	ine	3,840,474	12	12,653	7,331	19,984	1,005	63,870
3	Gaya {District excluding towns		3,389,403	{ 05 4	49,531 1,928	37,078 1,425	81,309 3,303	908 833	72,364 2,367
3	Shahabad District excluding towns Towns	449	} 1,993,489	{ 126 ,	88,720 3,723	26,305 2,891	60,026	484	55,802
						-,		103	2,503
	Total of Patna Division { District excluding towns Towns		6,229,495	{ 310 28	122,453 18,804	97,705 11,347	290,158 29,651	1,019	193,026 12,683
	Tighat Distaics.								
4	Saran {District ecoloding towns Towns		2,400,400	{ *8	49,884 1,599	29,658 1,276	89,522 2,675	1,017	80,680
ı	Champaran { District excluding towns		3,145,687	{ 79	40,204 1,693	29,269 1,259	88,543 2,951	1,121 1,475	69,520 1,565
	Maraflarper District excloding towns		} 2,041,025	{ 59 5	70,883 3,062	58,217 2,092	128,540 5,154	8,004 1,681	104,683 2,758
.7	Darbhanga {District excitating towns		3,166,094	{ so	61,603 2,308	54,477 1,799	110,080 4,167	1,173 835	105,500
	Total of Tirbut Division { District excluding towns		} 10,730,274	805 17	231,344 8,721	101,661 6,426	438,008 18,147	1,897	380,638 9,008
	Ekogalpur Division.								
	Monghyr District excluding towns		} 2,287,154	{ 62 3	2,162	43,261 1,197	3,319	1,791	61,896 1,605
	Ehagalpor {District excluding towns		3,884,683	{ 87 4	60,2/4 2,441	43,812 1,898	112,506 3,879	3,043 989	5,9744 2,515
10	Parnes {District excluding towns	-	3,186,543	{ 78 4	39,649 1,730	81,609 901	71,816 3,621	936	61,391
31	Santal Perganas { District excluding towns	-	2,051,472	{ 74 4	34,450 2,063	26,793 1,236	61,653 3,367	833 821	48,072
	Total of Bhagalpar {District excluding towns District.	-	8,759,901	{ 249 15	211,658 8,436	145,028 4,711	356,583 13,145	1,432	231,506 6,257

Mair a	Vacci	nation.	nininy	Re	-vaceinatio	n	ful case	ge of specess is in which sults were nown.	70		nations and re-	l cases performed
Under one year.	One year and under six years.	Total of all agen.	Unknown.	Total,	Saccessful,	Unknown,	Primary.	Re-raccination.	Persons successfully vaccinated per 1,000 lation.	Total cost of Vaccination Department.	Number of all successful vaccinations and vaccinations performed by the vaccination only.	Average cost of each successful cases by the vaccination staff,
10	11	12	13	14	15	16	17	18	19	20	21	22
-								16		Re. a. p.		Rs. a. 3
15,411 1,782	45,889 4,225	63,551 6,221	337 261	9,953 13,912	2,501 4,194	5,787 5,169	99°87 92°70	60°03 53°43	} 42*01	3,588 0 0	77,576	0 0 9
13,468	55,197 639	71,515	297	14,045	4,907 410	7,100	99-50	69-21	33'41	1,442 6 6	79,904	0 0 3
12,078	35,216 1,799	85,637 3,431	173	6,134 2,611	2,623 765	793 311	99-85 99-25	78-45 33-60	} 31-62	921 0 0	63,030	0 0 3
40,907	137,391	190,703 11,498	797	28,132 16,789	9,931 5,369	13,680 5,£63	91-70	68-73 47-82	} 35.30	6,251 6 6	220,410	0 0 5
13,528 760	69,427 1,467	78,582 2,249	1,406	8,663 575	3,155 254	2,000 145	99-01	47-42 59-07	} 34-12	1,547 4 6	84,805	• • •
11,854 482	54,007 703	67,443 1,214	569	20,034	6,930 803	5,815 331	99°24 97°59	48 ⁻ 73	} 35-97	609 13 6	77,174	0 0 1
14,833	89,104 2,281	104,243	111	24,157 2,396	9,055	6,927 1,123	99168 98176	52-55 41°90	} 39:76	813 7 0	116,943	0 0 1
14,548 347	90,521	105,286 2,480	33	10,514	5,027 398	2,449 280	99°76 99°33	62-36 36-68	35/85	1,153 1 6	113,501	0 0 2
63,763 1,994	303,089 6,811	355,551 8,851	2,300	63,367	24,167	17,200	90°47 96°85	53-34 48-48	36'54	4,103 1 6	392,473	0 0 2
19,780	43,809 843	61,767	64	49,161 1,854	452 223	44,323 857	99°88 97°53	15-98 22-43	} 27:03	5,289 7 9	63,895	0 1 4
25,626 732	32,336 1,763	59,214 2,515	1,238	02,822 1,501	23,389 433	19,790 327	100'00	70°80 41°75	} 38-16	3,638 6 3	85,045	0 0 8
15,905	41,443 765	68,798 1,100	660 29	10,024	2,403	6,586 772	97°34 95°24	70°09 46°31	1 > 28.89	4,531 2 6	63,080	0 1 2
23,310	34,121 449	47,594 940	810 68	13,980	1,524 730	10,413 577	99'44	59·17 44·16	} 25-41	8,195 4 9	52,136	0 2 6
77,711 2,164	140,738	226,963 6,024	2,901	124,987	27,767 1,694	83,112 2,533	199*01	60-31	} 30:26	22,351 5 3	265,008	0 1 4

Number.		District.	The second second second second	Population of district according to the centra of 1091.	Average number of vaccinators employed throughout the season.	Total no	mber of persons vac	cinated.	Average number of persons vaccinated by each vaccinator.	Primary.
1				3			6	1	8	
12 23 14 15	Hazaribagh . Ranchi Palaman Manbhum Singhbhum Total of Che Division.	District excluding towns Towns District excluding towns Towns District excluding towns Towns District excluding towns Towns District excluding towns Towns		} 1,517,367 } 1,567,149 } 818,736 } 1,610,500 } 920,802	{ 44 3 45 5 45 45 45 45 45 45 45 45 45 45 45 4	22,3 1,0 27,1 2,3 51,3 1,7 20,6 4,5 11,3 11,4 11,4 12,4 12,4	1,005 23,743 300 1,500 30,743 300 17,843 42 1,071 29,644 50 2,720 25 11,984 00 7,138	3,027 50,848 3,748 49,082 2,823 60,505 7,270 24,660 21,128	960 1,009 1,058 750 1,363 2,913 911 1,454 819 1,510	\$9,000 1,600 39,193 2,080 24,060 281 45,363 2,303 30,139 3,666
	Total of partment.	Vaccine De- { District excluding towns Towns Total Jails Cantos ments		32,371,494	1,101 83 1,184	605.1 50,1 755,1	23 36,027	95,950 1,339,048 24,453	1,190 1,160 1,133	947,634 38,019 967,853 283 318
		Total of dispensary staff	-		-	-		-	-	
		Total of private medical practitioner					0 p/s = n	-	-	
		Total of Railway Dispensary	***				783 16	-	-	145
		Railway Collieries and Fa tories					539 3,86		100,00	1,878
		Cooly Depot Grand Total	-	1,360		790,	533 66 925 678,92	-		990,780

districts of Bihar during the year 1937-38-concld.

Faccination	oa.			Re-v	accination		ful cases	of specess-	-adod jo	The same	revacel-	performed
	Succes	eful.					kne	ilts were	er1,000		ions and	699109
Under one year,	One year and under eix years.	Total of all ages,	Unknown,	Total,	Successful.	Unknown.	Primary.	Moracelnation.	Persons successfully vaccinated per 1,000 lation.	Total costs of Vaccination Department.	Number of all puscessful racel ations and revacel- nations performed by the vaceination staff only.	Average cost of each successful by the vaceluation staff,
10	11	13	18	14	15	16	17	19	19	30	21	22
										Es. a.p.		Rs. a. 9
703	20,923 799	38,018	16	3,639	1,457	1,576	99°91 99°67	70-97 45-13	\$ 19-51	6,245 2 6	44,783	0 1 7
38,450	5,784	38,285	4	12,555	7,385	2,165	89-99	71.08	30-93	5,926 4 4	49,479	e Ohmous
9,000	9,356	1,764	290 428	1,693	12,733	6,166	99-66	67-59)		40,410	0 1 1
180	90	260	-	2,542	1,167	93	99*64	63.89	\$ 47-25	8,782 35 o	39,685	0 1
793	29,583 1,388	34,245 2,294	735	21,143	10,318	4,811	76°73	63-12	} 25'84	674 0 0	48,000	0 0
12,129	6,654	19,400	593	4,450	2,058	1,720	99-25	75'55	34-19	3,339 7 5	91 701	Sandy printer
1,993	1,129	3,346	116	17,460	2,531	4,281	94'45	19-17	,		31,701	0 1
										1000		- Julia
85,205 4,913	72,325	154,145 9,169	- 1,775 408	98,778 28,113	33,940 7,100	0,469	93°53 97°80	67°44 32°80	31.00	17,961 13 1	212,347	0 1
258,636 13,955 272,591	689,514 21,465 680,009	924,765 35,664 961,330	7,772 973 8,746	283,204 67,931 341,196	95,805 16,181 111,966	130,436 16,543 146,970	99:37 90:00 99:28	63-69 87-06 87-06	33'68	50,673 3 4	1,090,286	0 0 1
10 207	16 95	191 807	32	24,200	8,220 74	3,841	97:46	40°35 43°77	-	=		
	-		100		-							
-		-										
85	79	149	3	801	163	354	99-50	31.80				
863	1,003	1,870	120	10,535	4,966	2,103	89-30	59-20				
46	109	333		2,009		2,069	100-00	1	-	-		-
273,292	682,335	964,871	8,903	378,969	125,415	155,353	98-27	50.08	\$\$-08	£0,673 3 4	1,090,256	0 0

SUMMARY.

	Total no persons v	umber of sectinated.	Total nu operati perior	ions	Percent successfr in which ti were kn	l cases	Average no persons vac by each v tor.	raceina-	childre	nber of n success- coinated.			billion.
	Primary.	Retracolnation.	Primary.	Beracelnation.	Primary.	Reracelnation.	Vaceinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under 6 years.	Baile of success- ful vaccina- tions per 1,000 of popula- tion.	Total cost of Vaccination Department,	Average cost of each so cossful case,
1	2	3		5	6	7	8	9	10	11	13	13	14
												Rs. a. p.	Es. a. p
- All		2											
EY SPECIAL STAFF.					1			10 19		4	100	0007	00,77
tatement (I)	987,853	341,195	387,843	361,195	98'28	57'66	1,184	1,123	277,591	687,900		100	2011
BY OTHER AGENCIES.		D 30		1110	non						13-68	50,473 3 4	001
Collicries, Dispensaries and Lever Asylum. Cooly Depat, Julis and Cantonments.	2,027	37,774	12,927	37.774	91.78	45'90		-	701	1,356	1	127	50
14 155											- 10	1000	
Total	090,780	378,900	390,780	378,009	98-27	56'08	1,194	1,128	373,299	682,325	33-65	50,673 3 4	0 0

Comparative statement no. II.—Showing the percentage of persons primarily vaccinated to the total number of vaccinations performed in the Province of Bihar in each of the undermentioned official years.

				-la		SHE SHE	Ye	APR.				
Establishme	nts.		1928-29.	1929-30,	1930-31,	1931-52,	1933-83,	1933-34.	1934-35.	1935-26,	1936-97,	1937-38
1			,	,	4	5	6	7	8	9	10	n
Povernment staff	_		14'13	1:36	9-56	9-99		4:02	5-21	17'3		111
Dispensacies	***			14:75	9165	75'00	16'08	58-56	24-94	48-21	24'44	
Manicipal			73'47	71-71	64.03	67-13	30'88	19-00	33*07	22.21	80-63	391
District Board	***		60'14	67-12	70-70	64'30	38'61	17'94	43.60	61-90	60-32	54
deensed vaccinators		***	97-60	;97-59	92.75	97-29	90'97	84'19	70'93			901
talls and collieries		100	34'22	85'25	34-23	28-78	21'47	9104	5-97	13-12	39.15	15
ella		***	1.49	1'34	1.11	0.78	2-20	0.80	1'83	4-84	2.33	17
ooly Depat	***	***	2.31	0.21	0'45	1'43	7:29	5'07	3.00	11'17	24'96	13"
antonment	***		-	95-98	69'31	94'08	63-81	73-73	60'81	30'06	91-63	631
31				-	5 10	1003	F'C Wat	1000	MY.II.	103,70	9 D. P.	H.

STATEMENT NO. III .- Showing particulars of vaccination

					7	otal numb	er inspected	-			Per	centage o
	Total numb	er of per- ccinated,	By Assle	tant Direct aperintend	tors of Publi	e Health ation.	By Nat		stendents or g Officers.	other	By Assist	ant Dire
District.		1 3	Assistant of Public	Directors Health.	Superinten Taccana		District I. and Healt tors.	nspectors th Inspec-	Sub-Ins	peetors.		t Director Health.
29'(2 brost	Primary.	Re-racelnation.	Primary.	Se-raccination,	Primary.	Re-vaccination,	Primary.	Be-raceination.	Primary.	Se-racelnation.	Primary.	Re-racelnation,
11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	100 to 10	•			7			10	11	13	13
ating D L	71,309 74,651 69,683	24,584 16,389 10,891	1,611 1,320 259	1,513 1,944 155	1,858 1,943 8,108	78 1,593 180	9,990 5,804 4,844	1,306			2°28 1°77 0°43	11:80
aran di	83,160 69,775	11,118 23,681 27,787		239 11 1,730	1,530 5,807 2,448	31 1,943	7,123 43,941 43,908	2,418	1113	-	0'007	0.0
oraffarpur arbhanga ongbyr	107,443 108,372 63,391	13,250 81,015	1,441 878 1,190	1,773	3,947	258	45,958 11,856	1,180	30,713	251	0'81	13:1
ingalpur irnea intal Parganas	62,963 62,490 49,818	58,153 12,858 19,512	1,353 3,008	3,355	4,492 6,189 898	210	5,347 34,397 3,530	2,649 1,160 23	12,639	253	0°05 2°16 6°20	26%
araribagh	41,068 40,349	10,463 14,954	3,301 2,768		451 150	588	3,145 8,509	325	8,641 17,350	124 576	7 '68 6'86	
alamau anbhum ughbhum	24,694 47,666 24,319	29,317 26,109 28,890	1,194 1,675 1,703	1,478	372 1,489 858	39 19	3,151 7,577 677	1,999 , 23	3,770	353 64	4°83 4°30 7°00	
TOTAL	990,780	378,969	22,131	14,757	61,145	5,227	238,797	11,160	06,420	1,611	2:23	3.8

verified by inspecting Officers during the year 1937-38.

aspection	to total no	imber vace	inated.			P	eccentage o	I cases foo	ind successi	ful to tota	I number i	napecte			
ors of Pub f Veccinal	lie Health	By Nat	tive Superi Inspecti	ntendents ng Officer	orother	By Assist or Sup	ant Direct	ors of Pub t of Vaccin	lie Health	By Nat	ive Superin	dendent Officer	sor other	Bucce	safil car ported coinager
Superinte Vacein	ndent of stion.	Dist Inspe an Health In	etors	Sub-Inc	spectors.	Assistant of Public	Directors Health.	Superit Vace	ntendent of	Inep	triet ectors Health ectors,	Sab-1	nspectors.		
Primary.	Re-vaceination,	Primary.	Be-raceination.	Primary.	Re-raceination.	Primary.	Re-racelnation.	Primary.	Re-racefration.	Primary.	Re-raceination.	Primary.	Re-raceination.	Primary.	Re-vaccination.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	20
2103	0:32	14-02	5-31			98-30	93-39	98'07	10:35	08'47		-	11	98-40	40'81
3.60	9:00	7:77				88.20	92-60	99'54	100-00	09-86	***			88.50	34*20
13-62	1.65	8-13	1-87			94'20	90.33	15-24	28-19	31.02	28'43			09:69	63-4
1.83	0°27	85-56	-			100.00	100.00	99-31	29-03	99103				97-15	36'0
7.60	8:20	62-68	10.21	-			100'00	99'80	28.83	99.58	41'37	***	-	98-33	46'1:
2-28	200	40-67	3:31		11 0. 5	99'59	96'53	99-79	Duro!	99-78	87:90	***		99-50	37-6
3'64	1.93	(42.43	8-90		-	96-63	96'53	98-53	48 04	99:70	54.91			99"68	41*2
1-92	-	15-70		33-67	0'42	98-00	100'00	100-00		99*78		99-68	99.00	99-73	1-81
7.21	0.20	8:50	4'55			96-10	7-65	99-86	100'00	100:00	160-00		No.	97-43	44-23
9790	1.63	55-05	9-03			96'82	87.87	93'40	2476	92.19	33.71			95'33	20.00
1.77	-	7-07	0.11	25:77	1:29	93.65		99-77	-	96'08	27-27	95-08	43'08	97-63	17.9
1.08		6.14		30:74	118	94'96		100'00		78:50		98-22	2018	99'02	30-7
0-37	3-03	21.08	2.17	43'00	3'85	93-35		100.00	46'26	19:27	38 46	99-44	43:35	99-99	41'00
3-12	0.14	12.88	-	15:30	1.30	99.30	94:72	97'06	-	98'99		97:14	45 89	99'64	74-6
2.23	0.07	2-76	0.08	12-77	0.19	97:32	-	99'60	100-00	99'65	95.65	99703	83-33	99-79 95-53	29-63
4'15	1.38	26-10	2:94	6-70	0'42	69-23	89-45	81'93	61-41	97'06	50-25	98'54	51:52	97-80	39*11

124
STATEMENT NO. IF.—Showing side by side the ratios per mille of population

			190	19-29.	192	9-30.	1	1930-31.	10	01-32.
Dis	trict.		Ratio of deaths from small-por.	Ratio of successful vaccina- tion per mille of population.	Ratio of deaths from small-por.	Eatlo of successful vaccina- tion per millo of population,	Ratio of deaths from small-por.	Ratio of successful vaccina- tion per mille of population.	Batto of deaths from small-por.	Batio of successful vaccina- tion per mills of population.
	1		2	3	4	6	6	7	8	
Patna			0.49	33-32	0.40	28-34	0.23	25-86	0-30	26.19
Gaya	***	***	0.30	27-20	0.27	30-24	0.56	30-79	0.29	25.96
Shahabad			0.37	24.90	0-16	23.68	0.32	28-65	0-53	25.31
Saran	***		0.19	36.99	0.19	41.23	0.17	33-68	0.34	52.43
Champaran			0.07	23.84	0.10	24.51	0.06	20-98	0.12	20:44
Muzaffarpur			0.18	35-52	0.25	36.18	0.06	34-63	0.06	31.32
Darbhanga	***		0.16	36-36	0-12	37-63	0.18	35-54	0-17	32-47
Monghyr			0.53	38-29	0.45	35.86	0.42	30-35	0.16	28.85
Bhagalpur	***		0.45	38-32	0.16	35-17	0-08	34-53	0-07	34.15
Purnea			0-65	23.77	0.18	22:20	0.08	21.38	0.05	19-67
Santal Parganas	***		0.46	34.28	0.20	31-82	0.36	34-28	0.25	30-05
Ha:aribagh	***		0.30	38-74	0-15	35-92	0.13	36-81	0.10	33-96
Ranchi	***		0.24	40-73	0.08	40-80	0.04	55.24	0-05	35-04
Palamau			1.35	30-66	0-95	30-67	0.43	33-58	0-23	37-35
Manbhum	***		0.06	38-51	0.02	35-79	0.13	38-93	0.05	30-53
Singhbhum	•••		0.12	27.58	0.11	29-46	0.27	35-62	0.14	25.28
Т	otal		0-40	32-25	0.21	32.80	0-21	32-20	0.18	28-99

deaths from small-pox and the ratios of successful vaccinations per mille of population during the ten years ending 1937-38.

20	02-33.	193	3-34,	19	04-35,	193	5-30.	193	6-37.	. 190	17-39.
Ratio of deaths from small-pox.	Batle of gracessful wascination per mille of population.	Ratio of deaths from small-por.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-por.	Ratio of specessful wavelnation for mills of population.	Ratio of deaths from small-pox.	Eatle of successful receipation per mile of population.	Ratio of deaths from small-por.	Ratio of successful vaccina- tion per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccina- tion per mile of population.
10	11	12	13	14	15	16	17	18	19	20	21
0.68	41.13	0.56	35-65	0.24	41.63	0.37	52.04	0.42	40 82	0.25	42:01
1.15	41.84	1.96	37-20	0.53	39:12	0.57	85-75	0.69	31.18	0.45	33 41
1.20	29-36	1.12	26-07	0.39	20-97	1.34	29.97	1.08	34-34	0.27	31-62
1.29	39-63	1.18	47-99	0.14	23-31	0.19	29 32	0.18	33 77	0.41	84 12
0.85	27.41	1.00	81-13	0.20	32-33	0.29	37-96	0.11	23.61	0.18	35 97
0.37	37-23	0.77	49-18	0.15	50-36	0-17	47:32	0.03	43 76	0.03	39 76
0.44	37.89	0.45	34.29	0.26	41:18	0.31	41.93	0.21	\$6.99	0.03	35.85
0.07	32-96	1.33	31:44	0.70	80 28	1.03	25.53	0.79	26.06	0.19	27-93
0.41	37.20	1.08	47:24	0.21	47-09	0.91	61.72	0.48	50:30	0.14	38-46
0.24	24.55	1.41	36.84	2.55	41:36	2.16	38.87	1.43	29-05	0.11	23-85
0.27	38-04	0.33	30-22	0.37	28-19	0.74	27.03	1.09	24:25	0.22	25-41
0.07	34.05	0.50	38-83	0.81	31.13	0.79	31-71	0-27	31.21	0-04	29.51
0.46	49.73	0-41	36.95	0.10	34.07	0-03	30-94	0.62	31-32	0.03	33-93
0.31	23.56	0.51	28-63	0.54	33 07	0-72	81.87	0.89	82-73	0.93	47:25
0-02	32-57	0.16	35-58	0.18	35-82	0.11	44.66	0.23	41.53	0.32	20.84
	22-71	0.39	37-41	0.29	35-29	0.62	58-38	0.80	38:50	0-13	34.19
0·57	34-87	0.83	37-24	0.2	35.57	0.65	39:23	0.56	35:53	0:21	33.68

STATEMENT NO. V .- Showing the protection afforded to intants in each town in the Province of Bihar during the year 1937-38.

District.	Towns,		Number of births dur- ing the year ending 31st March 1937.	Number of deaths amongst intants under one year during the year ending 31st March 1937,	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1837.	Date of extension of Vacci- nation Act to town.			
1	2		3	4	5	6			
	ſ Patna		3,165	526	1,126	1st October 1884.			
	Bihar		8:3	140	414	1st April 1887.			
Patna	Dinapur		858	191	64	28th January 1891.			
	Barh		270	54	97	1st April 1887.			
	Khagole		204	44	60	12th July 1910.			
	Total		4,680	955	1,761				
	Gaya		2,564	786	1,202	1st January 1883.			
Gaya	Tikari		144	15	76	3rd January 1891.			
	Daudnagar		423	68	256	Ditto.			
	Total		3,131	869	1,534				
	Arrah		468	48	784	20th July 1885.			
	Buxar		385	74	154	1st April 1887.			
Shahabad	Dumraon		230	7	85	Ditto.			
Shahabad	Jagadispur		158	24	23	20th December 1890,			
	Sassaram		526	64	542	1st April 1887.			
	Bhabhua		127	14	80	Ditto.			
	Total		1,844	281	1,618				
	Total of Pat	na Divi-	9,655	2,055	4,913	10			
	Chapra		1,418	173	1,245	1st April 1887.			
Saran	Revelganj		451	80	421	12th December 1890.			
	Siwan		302	87	265	1st April 1887.			
	Total		2,171	240	1,931				
(1)	Motihari		809	35	105	1st April 1887.			
Champaran	Bettiah		1,085	78	877	Ditto			
	Total		1,394	113	482				

STATEMENT NO. V.—Showing the protection afforded to infants in each town in the Province of Bihar during the year 1937-38—contd.

District,	Towns,		Number of births dur- ing the year ending 31st March 1937.	Number of deaths amongst infants under one year during the year ending 31st March 1807.	Number of successful vaccinations a rongst infants under one year during the year ending 31st March 1907.	Date of extension of Vacci- nation Act to town,
1	2	1	3	4	5	6
in the same (Muzaffarpur		967	110	229	1st January 1886.
Muzaffarpur {	Sitamarhi		281	34	31	1st April 1587.
Muzanarpur	Hajipur		696	104	92	1st May 1890.
La constitution of the con	Lalganj		328	31	46	1st April 1887.
	Total		2,272	279	398	
	Darbhanga		1,811	212	236	24th May 1834.
	Roserah		224	16	28	3rd January 1891,
Darbhanga }	Samastipur		278	29	46	25th July 1910.
	Madhubani	·	438	46	. 37	1st April 1887.
	Total		2,751	303	317	
The state of the s	Total of Tir Division		8,583	935	3,158	
	Monghyr		1,377	167	455	15th November 1882.
Monghyr {	Jamalpur		1,049	114	158	Ditto.
	Total		2,426	281	613	
Bhagalpur {	Bhagalpur		1,761	210	698	15th February 1884 withdrawn on 16th October 1895; re- extended on 18th August 1898.
	Colgong	·	164	28	34	Ditto, re-extended on 19th December 1901.
	Total		1,925	238	732	
	Purnea		219	37	123	lst July 1887.
P. C. P. Land St.	Kishanganj		115	26	118	12th November 1892
Purnea }	Katihar		142	14	62	8th August 1910.
(Forbesganj		111	26	25	9th August 1912.
	Total		587	103	328	

STATEMENT NO. V.—Showing the protection afforded to infants in each town in the Province of Bihar during the year 1937-38—concld.

District,	Towns.	Number of births during the year ending 31st March 1937.	Number of deaths amongst infants under one year during the year ending 31st March 1937.	Number of successful raccinations amongst infants under one year during the year ending 31st March 1907.	Date of extension of Vaccination Act to town.
1	2	3		5	6
	Sahibganj	137	9	131	1st May 1884.
Santal Parganas	Deoghar	97	11	111	Ditto.
Danial Laiganas III	Madhupur	63	5	113	22nd August 1910.
3801 Cm, A = 1 {	Dumka	104	6	126	Notifications, dated the 9th April 1884, and 23rd August 1910.
	Total	401	31	481	
	Total of Bhagalpur Division.	5,339	653	2,154	and the same
	Hazaribagh	367	21	337	1st January 1885:
Hazaribagh {	Chatra	292	26	185	1st August 1885.
	Giridih	241	16	181	8th September 1910,
	Total	900	63	703	
(Ranchi	840	66	983	1st April 1887.
Ranchi {	Lohardaga	221	18	278	25th June 1882.
	Total	1,061	84	1,256	- second
Palamau	Daltonganj	177	22	180	9th October 1890.
1	Purulia	471	40	283	1st January 1887.
Manbhum	Raghunathpur	199	36	51	9th February 1894.
	Jhalda	152	14	58	9th July 1892.
	Dhanbad	497	30	25	5th December 1918.
	Total	1,319	120	417	
(Chaibassa	242	82	199	20th June 1892.
Singhbhum	Chakradharpur	146	17	115	13th January 1919.
	Jugsalai	213	11	180	1st April 1924.
	Jamshedpur	268	34	1,498	10th January 1933,
	Total	869	91	1,992	THE PERSON NAMED IN
	Total of Chota Nagpur Division,	4,326	383	4,548	
	Total for the Province	27,908	4,026	11,773	

ANNEXURE II.

ANNEXURE

Provincial Statement showing the different kinds of lymph

							Primary vaccination.								
				Direct fro	om the	ealf.		W		Arm-to-ar					
District.		Fotal.	Successful.	Unsuccessful,	Unkaown.	co. Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Uaknown.	Percentage of successful osses.	Total.	Successful.		
1			2	3	4			5	. 8	9	10	11	12	13	
Paten					1			71,200	70,100	583	526	98-44			
Gaya		***			-			74 651	73,361	886	404	98-27			
Shahabad				1	1			59,523	59,196	108	219	99-45		111	
Saran			***		1		***	83,160	80,831	803	1,526	97:20			
Champaran	***		***		***	141		69,775	68,617	547	571	98:40	-		
Musaffarpur				1			***	107,443	106,956	363	124	99:55			
Darbhanga				-			100	108,3:2	108,032	294	46	99.08	***	***	
Monghyr			***	100		***	***	63,391	63,220	112	59	99-73	***		
Bhagalpur			***		-			62,262	60,732	292	1,238	97-54	***		
Purnea	-		***		***	-	***	62,480	59,900	1,662	918	95-87	***		
Santal Pargan	30000	70.00000					***	49,818	48,633	307	878	97-62	***	***	
Hazaribagh		***	***			***	***	41,668	41,262			99-02		***	
Rauchi		***	***			***	141	40,349	40,049	197	209	99-24	***		
Palamau		***	***	200		***	***		24,180	6			***		
Manbhum		***	***	100		***	***	24,694 41,666	36,529	86	428	97:92		***	
Singhbhum		***					***	24,319	23,233	10,886	751 712	95:53	***		
	Total							990,780	964,871	17,008	8,903	97:38			

II. used and their rates of success during the year 1937-38.

										Re-vace	ination.						
vaccination. Direct from the calf.								With lanol	ine or glyco	Arm-to-arm vaccination.							
Unknown. Unknown. Percentage of successful cases.		Jo of Ing.		Percentage of successful cases.	Total.	Total. Successfui.		Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.			
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
						014	-	24,584	7,476	5.947	11,161	30'49					l
			4		***			16,389	6,443	2,601	7,345	39:31					
340			444					10,891	3,834	5,103	1,954	35-20			-		"
***								11,118	4,024	4,564	2,430	36-19					-
***	I.							23,681	8,517	8,743	6,422	35:96		-			
				***				27,787	9,987	9,574	8.226	35-94	****				-
								13,250	5,469	4,854	2,927	41.27					1
								51,015	675	3,150	47,190	1-33					1
								58,152	25,213	12,382	20,557	43-85					
			411					12,858	3,180	2,196	7,482	24.73				***	
		100						19,512	3,503	3,184	12,825	52:33					
	***	111	240	100			***	10,462	3,521	4,205	2,736	33.65	***				
	***		***	***				14,954	8,430	3,783	2,741	56'37	-	*			
			100					29,317	14,505	6,994	7,818	. 49-48	***	100	***	144	
		210	***					26,109	12,080	7,995	6,034	46:27					-
		***	***			1		28,890	8,558	12,828	7,504	29-62	1				
								378,969	125,415	98,202	155,852	33-09				•	

GOVERNMENT OF BIHAR.

LOCAL SELF-GOVERNMENT DEPARTMENT.

RESOLUTION.

Dated the 2nd August, 1939.

READ-

The Public Health Report for the year 1937 and the Vaccination Report for the year 1937-38.

- 1. Vital statistics.—The total number of births decreased from 1,144,008 in the previous year to 1,100,657 in the year under review. The total number of deaths rose from 701,814 to 729,454, the increase being due to larger number of deaths from fever and cholera. The excess of birth over the death rate was 11.5 as compared with 13.6 in the previous year. Registration of vital occurrences is compulsory only in the municipal areas. A certain percentage of vital occurrences was investigated and verified by the officers of the Public Health Department. An attempt has been made in the recent years to transfer the responsibility for collection, tabulation and verification of vital occurrences to the bigger municipalities and experience shows that the municipal statistics are more reliable than those collected by the police. With the increasing number of health officers employed by municipalities more of them will be in a position to undertake this work.
- 2. Infant mortality.—Government view with satisfaction the decrease in the rate of infant mortality from 118.0 per thousand in the previous year to 15.9 per thousand during the year under review. Though maternity and child welfare work is gradually expanding much still remains to be done in this direction specially in rural areas. Some of the municipalities maintain midwifery services and it is commendable that some of the district boards have introduced schemes for training indigenous dais.
- 3. Cholera.—The total number of deaths rose from 6,070 in the last year to 13,949 during the year under report and the corresponding death rate from 0.2 to 0.4. The districts of Bhagaltur and Monghyr and the towns of Hajipur, Colgong, Revilganj recorded highest number of deaths from this disease. Of the other districts Muzaffarpur, Gaya, Santal Parganas and Patna reported comparatively larger number of deaths from cholera during the year. Government deputed doctors on epidemic duty to cholera-infected areas whenever the staff of the local bodies were found to be inadequate to cope with the situation and disinfectants and cholera varcines were distributed in such areas by the Public Health Department. The number of doses of cholera vaccine issued by the department during the year was 610,000 against 288,930 during the previous year. Anti-cholera inoculation is gaining greater appreciation and hardly any objection is now raised to its use.
- 4. Bacteriophage.—124,090 phials of choleraphage of 50 c.c. were prepared during the year in the Bacteriophage Laboratory at Patna and 121,921 phials were distributed to various towns and districts of the province. Choleraphage was also prepared in ampouls of which 500 were issued during the year. Besides the production of choleraphage the basic research on bacteri phage was also continued.
- 5. Small-pox.—The total number of deaths from small-pox decreased from 22,863 in the previous year to 7,485 during the year under report and the corresponding death rate from 0.7 to 0.2. The lower death rate is

attributed to the immunity conferred by extensive vaccination and revaccination. As usual the rural areas suffered more than the urban and the highest death rate was registered in the districts of Palamau, Manbhum and Gaya-The districts of Ranchi, Muzaffarpur and Hazaribagh recorded the lowest death rate. Among the towns Bettiah, Patna City and Chatra reported the highest death rate. Primary vaccination is compulsory in all the municipal towns and also in rural areas of nine districts. The control of vaccination has been transferred to those local bodies which have initiated approved health organisation schemes and the health officers of these districts have been appointed to be superintendents of vaccination. In these districts the inspecton of vaccination is now carried out by the district health staff and the Government vaccination inspecting staff have been withdrawn. It is hoped that in the near future all the district boards of the province will take over the direct control of this very important public health measure. Until they do so, there is no hope of making vaccination universally acceptable and providing facilities for the vaccination and revaccination of the entire population; and Government must endorse the view of the Director of Public Health that so long as primary vaccination and periodical revaccination of the entire population are not made compulsory it will not be possible to completely eradicate the disease.

- 6. Plague.—The total number of deaths from plague slightly increased from 1,245 in the previous year to 1,470 during the year under report. The death rate was the same as in the previous year, viz., 0.08. The district of Saran recorded the highest death rate followed by Muzaffarpur and Champaran. The town of Bettiah also remained infected with plague almost throughout the year except in the months of August and October. Bettiah being an important grain centre of the district offers a favourable field for a high rat population. Necessary preventive measures were taken by the Public Health Department: epidemic doctors were detailed on plague duty and extensive anti-plague inoculations were given to the people in the affected districts.
- 7. Dropsy.—Government note with satisfaction that Beri Beri or epidemic dropsy did not occur in epidemic form in any of the districts in the province during the year under report. Sporadic cases were, however, reported from all the districts and 828 cases in all were treated in the hospitals and dispensaries in the province. The highest number of cases was reported from the districts of Manbhum, Patna, Bhagalpur and Monghyr.
- 8. Malaria.—The high incidence of malaria during the year is reflected in the increased number of deaths from fevers which were 584,873 as against 549,009 in the previous year. As in the previous year, North Bihar suffered most The districts of Purnea, Palamau, Bhagalpur, Darbhanga, Muzaffarpur and Hazaribagh recorded the highest death rate. All possible measures were taken by Government for combating the disease. Twenty-one epidemic doctors of the Public Health Department were detailed for malaria duty whilst 1,981 lbs. of quinine and 50 lbs. cinchona febrifuge was provided by the department for free distribution in affected areas. A large number of antimalaria centres and sub-centres were also set up throughout the affected areas.
- 9. School Medical Inspection.—Out of 11,430 boys and 947 girls examined as many as 4,958 boys and 655 girls were found to be defective or diseased. Besides minor troubles, e.g., enlarged tonsils, bad teeth, errors of refraction, etc., 38.4 per cent of the students were found to suffer from malnutrition. Pulmonary tuberculosis and leprosy were also noticed in some of them. Any appreciable improvement in the health of the students requires sincere co-operation of parents and guardians who are kept informed of the particular defects in their wards and Government trust that by special propaganda work by School Medical Officers and by arranging lectures and demonstrations in selected centres, co-operation of parents and guardians will be forthcoming in a greater measure in future. The scheme for providing mid-day school lunch on a monthly fee of annas eight per student introduced in the Purulia Zila School in 1934 has now been taken up by quite a number of high schools in

the province. Government are glad to note that the system is reported to be working very satisfactorily.

- 10. Public Health Department (Engineering Branch).—A summary of the activities of this department relating to sanitary works in areas under the jurisdiction of the local bodies during the year is appended to the report.
- 11. The office of the Director of Public Health was held by Lt.-Col. J. A. S. Phillips, c.i E. i.m.s. from the 1st January to the 14th February 1937 and by Lt.-Col. S. L. Mitra, i.m.s. from the 15th February to the end of the year. Government desire to thank both these officers for the efficient manner in which the administration of the department was carried on and for the cordial relations which the department maintained with the local bodies during the year. Government have noted the names of the subordinate officers commended in the report.

By order of the Governor of Bihar,

B. C. MUKHARJI, Secretary to Government. the province. Government are give to note that the system is reported to be working very esticioning.

To, Public Health Department (Haylacoving Borres) - A seamong of the notifice of this depart took relating to confirm works in a case under the invital letter of the local booting the year is approach to the result.

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